

## VITAL AND SOCIAL STATISTICS.

## DEATH RATES FROM CERTAIN CAUSES—Continued.

CITIES AND CAUSES.	All ages.	Under 1 year.	Under 5 years.	Under 15 years.	15 to 45 years.	45 years and over.
<b>Chicago—Continued.</b>						
Malarial fever.....	10.09	19.93	17.76	10.98	7.28	19.80
Stillbirths.....	200.48	7,324.61				
Inanition, debility, and atrophy.....	98.01	2,889.98	653.49	259.81	2.86	93.53
Tubercular diseases.....	257.49	1,421.74	544.10	251.93	243.91	330.41
Consumption.....	175.93	146.16	70.32	48.07	227.27	293.55
Scrofula and tabes.....	6.18	70.72	28.41	12.10	2.69	6.14
Hydrocephalus.....	13.55	219.24	90.21	39.09	1.18	0.68
Inflammation of the brain.....	58.92	976.61	350.89	152.29	11.26	25.94
Diseases of the bones and joints.....	2.91		4.26	4.79	1.51	4.10
Cancer and tumor.....	42.10	6.64	5.68	4.50	22.69	212.99
Diabetes.....	3.18		0.71	1.13	1.85	13.05
Diseases of the nervous system.....	250.58	4,740.23	1,328.86	552.56	45.22	354.09
Diseases of the circulatory system.....	80.28	179.38	50.43	38.28	50.60	303.79
Diseases of the respiratory system.....	370.09	3,557.07	1,511.55	654.74	132.29	653.81
Pneumonia.....	184.75	1,212.46	526.34	230.54	108.26	386.89
Diseases of the digestive system.....	93.47	1,006.51	277.02	123.86	47.07	208.09
Diseases of the urinary system.....	44.82	49.83	20.60	14.64	29.42	181.69
Bright's disease.....	19.82			2.81	13.62	89.70
Affections connected with pregnancy.....	277.54				277.54	
Childbirth and puerperal septicæmia.....	261.33				261.33	
Accidents and injuries.....	102.29	152.80	79.50	50.86	105.06	197.07
Suicides.....	16.91				18.83	50.52
<b>Cincinnati</b>	<b>2,236.38</b>	<b>25,972.28</b>	<b>8,935.41</b>	<b>3,515.92</b>	<b>1,026.66</b>	<b>3,657.57</b>
Measles.....	36.71	253.32	303.17	117.45	1.29	
Scarlet fever.....	7.75	14.90	47.87	24.15	0.65	
Diphtheria and croup.....	164.70	298.02	1,043.53	523.60	5.81	5.94
Whooping cough.....	21.22	447.03	191.47	69.15		
Typhoid fever.....	50.86	74.50	54.25	48.01	60.73	33.60
Diarrheal diseases and cholera infantum.....	140.78	3,337.80	982.90	351.23	15.51	146.54
Malarial fever.....	9.77	14.90	9.88		7.75	13.84
Stillbirths.....	136.74	6,049.77				
Inanition, debility, and atrophy.....	108.77	8,089.79	724.41	252.47	7.75	143.52
Tubercular diseases.....	379.58	1,743.41	807.38	326.02	395.42	431.70
Consumption.....	280.22	268.22	156.87	76.84	395.69	588.13
Scrofula and tabes.....	8.42	104.31	41.49	14.27	7.11	1.88
Hydrocephalus.....	19.53	357.02	137.22	55.98	4.52	
Inflammation of the brain.....	69.04	1,013.26	465.92	175.03	15.51	41.69
Diseases of the bones and joints.....	2.86		6.38	3.29	2.58	
Cancer and tumor.....	53.22	29.80	6.38	2.20	27.14	225.75
Diabetes.....	7.07			2.20	5.17	21.78
Diseases of the nervous system.....	269.11	3,978.54	1,324.36	493.96	62.67	499.03
Diseases of the circulatory system.....	102.39	223.51	57.44	35.13	56.86	364.37
Diseases of the respiratory system.....	376.88	3,203.70	1,544.55	597.15	131.81	734.68
Pneumonia.....	210.17	1,490.09	753.13	288.69	106.61	588.13
Diseases of the digestive system.....	119.23	983.46	354.23	137.21	63.32	259.42
Diseases of the urinary system.....	60.29	29.80	12.76	10.98	30.37	241.69
Bright's disease.....	25.60			3.29	14.21	100.99
Affections connected with pregnancy.....	255.13				255.13	
Childbirth and puerperal septicæmia.....	245.10				245.10	
Accidents and injuries.....	84.20	312.92	98.93	70.25	67.19	162.38
Suicides.....	11.79				12.92	29.70
<b>Cleveland</b>	<b>2,194.73</b>	<b>31,006.54</b>	<b>9,393.81</b>	<b>3,813.57</b>	<b>856.13</b>	<b>3,207.92</b>
Measles.....	54.33	420.09	399.19	162.03	1.49	
Scarlet fever.....	21.43	15.58	115.80	63.06	0.74	
Diphtheria and croup.....	147.31	405.11	775.84	436.33	5.21	2.49
Whooping cough.....	27.17	545.34	206.03	81.02		
Typhoid fever.....	62.75	15.68	16.10	21.99	97.52	34.81
Diarrheal diseases and cholera infantum.....	204.70	5,422.25	1,474.42	540.50	23.08	89.52
Malarial fever.....	15.69	46.74	19.32	13.89	15.63	19.89
Stillbirths.....	173.71	7,073.85				
Inanition, debility, and atrophy.....	154.58	4,799.00	1,081.67	388.88	8.19	141.75
Tubercular diseases.....	218.80	1,168.69	395.97	175.92	231.53	271.06
Consumption.....	158.79	109.07	51.51	35.88	215.15	236.24
Scrofula and tabes.....	6.12	77.91	19.32	6.94	4.47	9.95
Hydrocephalus.....	4.21	93.49	28.97	10.42	0.74	2.49
Inflammation of the brain.....	44.77	872.55	286.51	114.58	9.68	12.43
Diseases of the bones and joints.....	4.97	15.58	9.66	8.10	1.49	9.95
Cancer and tumor.....	48.21		6.44	2.31	27.55	216.35
Diabetes.....	3.44		3.22	1.16	1.49	14.92
Diseases of the nervous system.....	296.53	5,578.06	1,545.25	592.58	70.72	417.78
Diseases of the circulatory system.....	94.89	202.56	48.29	30.09	55.83	365.55
Diseases of the respiratory system.....	356.61	3,412.28	1,638.61	679.38	103.48	512.27
Pneumonia.....	188.25	1,464.63	737.21	310.18	81.15	285.98
Diseases of the digestive system.....	112.11	1,745.09	453.92	175.92	41.69	211.37
Diseases of the urinary system.....	37.88	46.74	28.97	12.73	25.81	134.28
Bright's disease.....	16.84			1.10	11.91	67.14
Affections connected with pregnancy.....	263.85				263.85	
Childbirth and puerperal septicæmia.....	254.73				254.73	
Accidents and injuries.....	76.14	140.23	51.51	58.24	75.19	129.31
Suicides.....	8.42				5.96	34.81
<b>Denver</b>	<b>2,421.45</b>	<b>31,796.35</b>	<b>10,326.43</b>	<b>4,754.93</b>	<b>1,386.38</b>	<b>3,236.94</b>
Measles.....	41.23	528.34	324.34	154.28	5.98	
Scarlet fever.....	15.93	96.06	156.94	67.25		
Diphtheria and croup.....	178.05	523.34	1,004.39	739.74	4.49	
Whooping cough.....	14.99	432.28	156.04	63.20		
Typhoid fever.....	217.41	240.15	125.55	179.17	278.17	92.05
Diarrheal diseases and cholera infantum.....	203.35	7,204.61	2,040.18	791.17	10.47	46.02
Malarial fever.....	3.75			3.96	4.49	
Stillbirths.....	121.82	6,244.00				
Inanition, debility, and atrophy.....	115.26	4,851.10	1,109.02	435.14	8.97	46.02
Tubercular diseases.....	308.30	1,440.92	554.51	249.22	338.50	258.47
Consumption.....	240.83	48.08	10.46	23.74	318.55	245.46
Scrofula and tabes.....	2.81	96.06	20.92	7.91		7.67
Hydrocephalus.....	13.12	288.18	125.55	51.43	1.50	

a Per 100,000 females 15 to 45 years of age.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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## DEATH RATES FROM CERTAIN CAUSES—Continued.

CITIES AND CAUSES.	All ages.	Under 1 year.	Under 5 years.	Under 15 years.	15 to 45 years.	45 years and over.
Denver—Continued.						
Tubercular diseases—Continued.						
Inflammation of the brain	48.73	1,008.65	397.57	162.10	13.46	15.94
Diseases of the bones and joints	2.81			3.98	2.09	
Cancer and tumor	28.89		10.40	7.91	14.06	153.41
Diabetes	3.75				2.99	15.34
Diseases of the nervous system	175.24	8,170.03	1,025.32	427.23	49.35	329.83
Diseases of the circulatory system	140.56	1,056.63	282.49	130.54	91.23	398.86
Diseases of the respiratory system	421.09	3,266.09	1,799.54	840.55	200.40	774.72
Pneumonia	285.81	1,440.32	878.84	415.36	179.47	605.97
Diseases of the digestive system	106.88	798.49	250.17	120.59	74.78	237.78
Diseases of the urinary system	50.60	96.06	20.02	31.65	37.39	161.08
Bright's disease	26.24			15.82	22.43	69.03
Affections connected with pregnancy	120.28				120.28	
Childbirth and puerperal septicæmia	83.83				83.83	
Accidents and injuries	146.19	570.87	177.80	98.60	133.10	276.14
Suicides	17.80				17.05	53.69
Detroit	2,041.52	27,833.92	8,400.18	3,539.19	803.56	2,917.16
Measles	13.11	110.23	97.24	39.57		
Scarlet fever	19.43	55.12	97.24	55.09	1.91	
Diphtheria and croup	174.86	349.07	970.27	520.25	4.77	
Whooping cough	12.63	275.59	101.13	38.10		
Typhoid fever	19.43	13.87	11.87	11.72	29.55	3.09
Diarrheal diseases and cholera infantum	230.24	6,801.67	1,680.23	640.42	13.35	71.15
Malarial fever	17.00	36.74	15.56	11.72	10.06	21.66
Stillbirths	171.95	6,508.77				
Inanition, debility, and atrophy	127.26	3,398.86	800.02	907.70	2.88	151.58
Tubercular diseases	248.35	1,414.69	509.53	246.20	262.60	210.36
Consumption	102.23	1,05.35	58.34	39.57	235.44	185.01
Scrofula and tabes	5.33	140.98	38.00	14.06	0.95	3.09
Hydrocephalus	18.46	349.07	128.35	49.83	3.81	
Inflammation of the brain	51.97	753.26	280.05	137.76	7.69	15.47
Diseases of the bones and joints	4.86		3.80	4.40	4.77	0.19
Cancer and tumor	48.57	18.37	15.56	7.33	20.97	225.82
Diabetes	4.37			2.93	3.81	0.28
Diseases of the nervous system	233.15	4,189.87	1,165.10	477.75	53.33	303.16
Diseases of the circulatory system	193.95	293.98	70.01	48.88	61.98	358.84
Diseases of the respiratory system	316.72	2,278.16	1,275.77	540.77	98.18	550.64
Pneumonia	143.29	803.49	361.73	161.21	70.40	354.10
Diseases of the digestive system	115.12	1,598.88	427.85	167.07	51.47	233.45
Diseases of the urinary system	36.92		11.67	7.33	21.32	148.49
Bright's disease	10.03			1.47	7.69	74.24
Affections connected with pregnancy	88.39				88.39	
Childbirth and puerperal septicæmia	88.01				88.01	
Accidents and injuries	71.40	202.00	70.01	49.83	67.08	123.74
Suicides	7.77				3.81	134.03
Indianapolis	1,884.56	27,415.14	7,881.93	2,920.59	1,012.53	2,790.80
Measles	1.00		21.10	6.73		
Scarlet fever	20.87	104.44	160.28	74.02		
Diphtheria and croup	71.13	281.10	454.93	242.26	1.79	
Whooping cough	10.43	208.88	115.38	57.01		
Typhoid fever	54.06	104.44	84.04	49.74	65.04	32.70
Diarrheal diseases and cholera infantum	138.47	4,020.89	1,110.88	390.76	24.61	125.37
Malarial fever	23.71	52.22	10.58	16.82	20.88	16.35
Stillbirths	152.70	8,407.81				
Inanition, debility, and atrophy	121.40	3,498.69	825.22	272.54	14.06	212.58
Tubercular diseases	368.94	1,462.14	677.11	309.56	408.58	316.15
Consumption	285.53	305.54	158.70	94.21	396.73	201.64
Scrofula and tabes	14.23	305.54	105.80	33.05	7.08	5.45
Hydrocephalus	14.23	208.88	74.06	40.38	1.76	5.45
Inflammation of the brain	53.11	522.19	338.55	141.32	7.08	43.01
Diseases of the bones and joints	3.79				7.08	
Cancer and tumor	33.20				21.09	125.37
Diabetes	8.79			3.36	1.70	10.90
Diseases of the nervous system	217.19	3,394.20	1,110.88	410.50	49.22	408.81
Diseases of the circulatory system	105.28	731.07	179.80	77.39	50.25	299.79
Diseases of the respiratory system	202.97	2,349.87	909.86	333.11	79.10	354.30
Pneumonia	90.59	1,148.83	476.09	168.24	38.07	168.97
Diseases of the digestive system	82.51	731.07	179.86	74.02	58.01	168.97
Diseases of the urinary system	41.78	865.54	126.90	50.47	19.34	98.11
Bright's disease	10.43				10.56	27.25
Affections connected with pregnancy	51.53				51.53	
Childbirth and puerperal septicæmia	51.35				51.35	
Accidents and injuries	99.59	52.22	74.06	43.74	93.17	168.97
Suicides	18.02				19.34	38.16
Jersey city	2,750.87	35,086.84	11,069.60	4,506.74	1,329.78	3,960.01
Measles	17.79	100.08	135.06	52.38	1.17	3.88
Scarlet fever	12.88	50.34	70.23	30.89	2.84	
Diphtheria and croup	191.41	478.23	1,150.73	585.90	0.86	7.70
Whooping cough	32.51	651.42	280.93	102.62		
Typhoid fever	82.21	25.17	37.82	54.32	100.43	58.21
Diarrheal diseases and cholera infantum	108.77	5,687.72	1,607.20	549.03	21.05	89.25
Malarial fever	28.83	25.17	32.41	25.22	19.88	65.97
Stillbirths	187.73	7,701.99				
Inanition, debility, and atrophy	138.05	4,480.24	1,080.50	391.89	7.02	69.85
Tubercular diseases	413.49	2,894.54	1,042.63	428.75	383.61	485.08
Consumption	271.77	100.08	43.22	42.08	301.39	454.03
Scrofula and tabes	5.52	50.34	10.80	8.88	4.03	11.04
Hydrocephalus	22.70	453.00	183.08	60.84	1.17	
Inflammation of the brain	109.81	2,290.46	804.97	308.47	14.03	31.05
Diseases of the bones and joints	3.68			3.88	2.54	7.70
Cancer and tumor	50.31	25.17	5.40	1.94	21.05	244.48
Diabetes	4.29		5.40	1.94	4.68	7.70
Diseases of the nervous system	392.51	5,938.06	1,863.86	702.30	63.16	488.96

a Per 100,000 females 15 to 45 years of age.

## DEATH RATES FROM CERTAIN CAUSES—Continued.

CITIES AND CAUSES.	All ages.	Under 1 year.	Under 5 years.	Under 15 years.	15 to 45 years.	45 years and over.
<b>Jersey city—Continued.</b>						
Diseases of the circulatory system.....	145.40	704.76	172.88	81.48	78.36	496.72
Diseases of the respiratory system.....	492.63	3,976.84	1,789.60	735.28	256.18	765.63
Pneumonia.....	323.92	2,265.29	918.42	393.83	210.52	562.00
Diseases of the digestive system.....	143.56	1,808.83	367.37	162.96	80.70	314.33
Diseases of the urinary system.....	79.75	75.51	43.22	23.28	56.14	271.04
Bright's disease.....	42.94	.....	.....	8.88	37.48	139.70
Affections connected with pregnancy.....	a44.88	.....	.....	.....	a44.83	.....
Childbirth and puerperal septicæmia.....	a39.08	.....	.....	.....	a33.08	.....
Accidents and injuries.....	144.17	877.55	167.48	106.70	140.35	225.06
Suicides.....	5.52	.....	.....	.....	8.19	7.70
<b>Kansas city.....</b>	<b>1,923.06</b>	<b>31,084.48</b>	<b>9,872.84</b>	<b>3,087.27</b>	<b>887.04</b>	<b>2,503.92</b>
Measles.....	45.21	351.86	379.12	167.08	1.26	.....
Scarlet fever.....	13.56	35.19	86.88	51.16	.....	.....
Diphtheria and croup.....	54.25	387.05	420.51	204.62	.....	.....
Whooping cough.....	36.92	798.92	351.78	189.26	.....	.....
Typhoid fever.....	69.93	.....	15.80	31.20	45.89	84.80
Diarrheal diseases and cholera infantum.....	143.92	3,940.89	1,108.94	434.82	22.70	110.38
Malarial fever.....	40.69	140.75	78.98	62.62	20.00	52.29
Stillbirths.....	193.65	9,042.93	2,029.86	730.28	.....	.....
Inanition, debility, and atrophy.....	54.39	2,779.73	710.84	255.62	8.83	81.33
Tubercular diseases.....	243.38	1,837.09	560.78	244.41	239.56	201.43
Consumption.....	179.33	281.49	120.37	68.21	218.13	226.67
Scrofula and tabes.....	8.29	70.37	31.59	11.37	6.80	11.02
Hydrocephalus.....	8.29	140.75	78.98	81.26	.....	.....
Inflammation of the brain.....	42.95	844.48	323.88	127.89	10.09	23.24
Diseases of the bones and joints.....	4.52	.....	.....	6.68	6.04	.....
Cancer and tumor.....	39.93	.....	7.90	2.84	25.22	180.10
Diabetes.....	2.26	.....	.....	.....	2.52	6.81
Diseases of the nervous system.....	183.10	3,086.41	1,034.67	406.40	52.96	331.15
Diseases of the circulatory system.....	80.02	387.05	102.08	54.00	54.22	201.43
Diseases of the respiratory system.....	301.40	3,976.07	1,777.11	704.81	100.87	400.88
Pneumonia.....	185.36	1,900.07	908.30	390.45	80.69	290.48
Diseases of the digestive system.....	70.10	844.48	268.54	110.84	40.35	102.07
Diseases of the urinary system.....	33.15	35.19	15.80	17.05	26.48	87.14
Bright's disease.....	17.33	.....	.....	.....	13.87	58.10
Affections connected with pregnancy.....	a80.40	.....	.....	.....	a60.40	.....
Childbirth and puerperal septicæmia.....	a40.67	.....	.....	.....	a46.67	.....
Accidents and injuries.....	134.87	774.10	229.05	127.89	127.85	191.72
Suicides.....	18.56	.....	.....	.....	20.17	11.02
<b>Louisville.....</b>	<b>2,180.86</b>	<b>27,940.32</b>	<b>8,716.46</b>	<b>3,190.08</b>	<b>1,120.84</b>	<b>3,637.90</b>
Measles.....	8.07	204.80	84.06	27.27	.....	.....
Scarlet fever.....	13.03	.....	84.06	44.04	.....	.....
Diphtheria and croup.....	49.65	204.80	355.64	187.79	.....	.....
Whooping cough.....	7.45	117.03	71.13	25.17	.....	.....
Typhoid fever.....	75.72	.....	38.80	56.63	93.79	49.00
Diarrheal diseases and cholera infantum.....	107.37	2,691.63	756.55	251.68	17.59	135.55
Malarial fever.....	14.27	58.51	32.33	14.08	8.21	32.07
Stillbirths.....	171.91	8,104.15	.....	.....	.....	.....
Inanition, debility, and atrophy.....	191.77	6,582.80	1,003.62	530.63	8.21	179.51
Tubercular diseases.....	379.20	1,813.03	827.68	341.87	402.14	355.30
Consumption.....	281.14	87.77	116.39	79.70	375.18	313.73
Scrofula and tabes.....	7.45	.....	19.40	12.58	3.52	10.09
Hydrocephalus.....	15.52	351.08	142.20	48.24	2.34	.....
Inflammation of the brain.....	73.23	1,345.82	543.16	199.25	18.76	25.04
Diseases of the bones and joints.....	1.86	20.26	6.47	2.10	2.84	.....
Cancer and tumor.....	47.79	.....	6.47	2.10	19.93	208.82
Diabetes.....	4.06	.....	.....	.....	4.60	14.65
Diseases of the nervous system.....	268.73	4,651.84	1,526.03	543.22	70.35	410.33
Diseases of the circulatory system.....	137.16	117.03	38.80	33.56	65.63	534.83
Diseases of the respiratory system.....	304.72	3,101.23	1,526.03	543.22	103.17	509.23
Pneumonia.....	174.30	1,755.41	860.01	310.41	70.35	255.45
Diseases of the digestive system.....	91.85	760.63	213.39	75.50	55.10	227.14
Diseases of the urinary system.....	61.51	58.51	45.26	29.36	24.62	157.53
Bright's disease.....	21.10	.....	.....	4.19	14.07	69.61
Affections connected with pregnancy.....	a84.09	.....	.....	.....	a84.09	.....
Childbirth and puerperal septicæmia.....	a68.18	.....	.....	.....	a68.18	.....
Accidents and injuries.....	142.12	203.31	109.93	58.73	160.62	197.83
Suicides.....	6.21	.....	.....	.....	5.86	18.82
<b>Milwaukee.....</b>	<b>1,927.93</b>	<b>23,939.60</b>	<b>6,931.26</b>	<b>2,881.36</b>	<b>778.70</b>	<b>3,966.51</b>
Measles.....	1.96	67.87	14.23	5.31	.....	.....
Scarlet fever.....	11.74	16.97	71.13	30.55	1.01	.....
Diphtheria and croup.....	132.05	271.46	558.34	346.72	8.05	3.40
Whooping cough.....	9.29	254.60	67.57	25.24	.....	.....
Typhoid fever.....	29.83	.....	7.11	17.27	39.24	30.64
Diarrheal diseases and cholera infantum.....	179.98	4,326.43	1,187.81	451.67	8.05	68.00
Malarial fever.....	0.98	.....	.....	.....	1.01	3.40
Stillbirths.....	50.37	1,747.64	.....	.....	.....	.....
Inanition, debility, and atrophy.....	241.11	6,209.70	1,265.62	512.77	3.02	329.84
Tubercular diseases.....	259.21	1,153.72	462.82	205.91	286.73	306.41
Consumption.....	183.89	271.46	81.80	42.61	264.60	275.77
Scrofula and tabes.....	7.83	135.73	39.12	14.61	5.03	.....
Hydrocephalus.....	11.25	152.70	64.01	26.57	5.02	.....
Inflammation of the brain.....	52.82	593.82	270.28	118.90	12.07	27.24
Diseases of the bones and joints.....	8.42	.....	7.11	5.31	2.01	3.40
Cancer and tumor.....	48.42	.....	7.11	2.66	23.13	251.04
Diabetes.....	3.01	.....	3.66	1.33	2.01	17.03
Diseases of the nervous system.....	300.29	5,700.71	1,504.32	589.32	53.82	384.72
Diseases of the circulatory system.....	92.92	152.70	42.68	26.57	47.29	411.08
Diseases of the respiratory system.....	274.86	2,290.46	1,106.01	455.65	78.47	450.05
Pneumonia.....	142.81	865.29	443.10	178.68	68.41	309.82
Diseases of the digestive system.....	81.68	610.79	180.03	71.74	50.30	214.49

a Per 100,000 females 15 to 45 years of age.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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## DEATH RATES FROM CERTAIN CAUSES—Continued.

CITIES AND CAUSES.	All ages.	Under 1 year.	Under 5 years.	Under 15 years.	15 to 45 years.	45 years and over.
<b>Milwaukee—Continued.</b>						
Diseases of the urinary system.....	42.55	50.90	28.45	15.04	23.14	177.04
Bright's disease.....	17.61				10.06	88.52
Affections connected with pregnancy.....	a72.53				a72.53	
Childbirth and puerperal septicæmia.....	a70.57				a70.57	
Accidents and injuries.....	89.99	118.76	85.85	51.81	88.53	104.06
Suicides.....	17.12				17.10	61.28
<b>Minneapolis</b>	1,481.14	20,150.88	5,005.77	2,842.92	705.57	2,130.36
Measles.....	10.93	142.82	77.33	36.48	1.03	
Scarlet fever.....	19.42	47.54	108.20	64.87		10.00
Diphtheria and croup.....	108.06	332.78	546.48	345.30	18.54	5.00
Whooping cough.....	6.08	213.93	50.71	28.00		
Typhoid fever.....	57.06	23.77	15.47	30.04	72.10	49.99
Diarrheal diseases and cholera infantum.....	150.01	4,135.96	1,103.26	460.61	21.03	59.98
Malarial fever.....	1.21	23.77	5.10	2.15	1.03	
Stillbirths.....	120.87	4,907.01				
Inanition, debility, and atrophy.....	63.74	2,020.44	479.46	208.83	1.03	44.99
Tubercular diseases.....	217.51	650.80	896.97	227.43	199.63	284.91
Consumption.....	152.97	160.10	72.15	60.08	176.14	250.92
Scrophula and tabes.....	6.08	47.54	10.81	4.20	7.21	10.00
Hydrocephalus.....	8.50	41.24	273.24	180.88	13.39	15.00
Inflammation of the brain.....	40.74	641.79		2.15	8.09	
Diseases of the bones and joints.....	2.45			4.20	18.54	219.93
Cancer and tumor.....	38.85		5.16		4.12	15.00
Diabetes.....	4.25				35.02	224.92
Diseases of the nervous system.....	145.08	2,424.53	742.38	343.30	45.82	254.92
Diseases of the circulatory system.....	78.81	618.02	139.20	98.00	88.58	300.91
Diseases of the respiratory system.....	216.71	2,465.84	1,000.15	418.43	74.10	264.92
Pneumonia.....	124.44	784.41	600.88	171.05	47.78	129.96
Diseases of the digestive system.....	52.20	190.16	50.71	30.04	19.67	134.06
Diseases of the urinary system.....	38.80	85.08	25.78	19.31	9.27	69.98
Bright's disease.....	16.78			6.44	a89.89	
Affections connected with pregnancy.....	a89.89				a74.13	
Childbirth and puerperal septicæmia.....	a74.13				64.89	104.97
Accidents and injuries.....	61.81	118.85	67.02	36.48	10.80	29.99
Suicides.....	9.71					
<b>Newark</b>	2,903.81	38,925.20	11,952.60	4,768.42	1,293.40	4,271.25
Measles.....	20.70	580.97	263.41	94.67		
Scarlet fever.....	30.80	24.21	108.08	64.67	2.15	
Diphtheria and croup.....	172.60	387.32	984.05	538.20	6.45	3.17
Whooping cough.....	20.15	702.01	258.44	62.01		
Typhoid fever.....	99.54	24.21	49.70	66.02	124.61	85.08
Diarrheal diseases and cholera infantum.....	252.98	7,649.48	1,923.36	662.47	23.63	133.28
Malarial fever.....	24.75	121.04	54.97	26.30	17.19	44.43
Stillbirths.....	163.84	7,189.54				
Inanition, debility, and atrophy.....	149.04	5,180.34	1,207.69	426.00		88.85
Tubercular diseases.....	481.22	2,251.27	1,013.87	415.48	404.10	561.07
Consumption.....	326.68	145.24	74.55	42.07	457.63	456.95
Scrophula and tabes.....	4.40	90.88	19.88	7.01	1.07	9.52
Hydrocephalus.....	36.30	750.42	293.23	113.95		3.17
Inflammation of the brain.....	109.44	1,234.57	616.27	243.68	32.23	92.03
Diseases of the bones and joints.....	4.40	24.21	9.94	8.77	3.22	
Cancer and tumor.....	51.15			3.51	20.41	228.48
Diabetes.....	7.15	24.21	4.97	8.51	1.07	28.50
Diseases of the nervous system.....	443.27	6,802.23	2,102.28	788.89	85.04	872.06
Diseases of the circulatory system.....	136.94	750.42	164.01	87.65	62.81	444.20
Diseases of the respiratory system.....	499.37	4,550.90	2,112.22	816.94	187.99	844.10
Pneumonia.....	254.08	1,476.04	859.80	333.09	132.13	472.82
Diseases of the digestive system.....	118.24	871.40	248.50	101.68	70.00	285.60
Diseases of the urinary system.....	97.89	48.41	24.85	28.05	64.46	323.68
Bright's disease.....	39.60			7.01	25.78	139.62
Affections connected with pregnancy.....	a85.70				a85.70	
Childbirth and puerperal septicæmia.....	a71.07				a71.07	
Accidents and injuries.....	78.09	242.07	89.46	61.36	74.12	107.89
Suicides.....	7.70				11.82	9.52
<b>New Orleans</b>	2,840.45	37,568.20	9,540.53	3,528.62	1,510.70	5,174.74
Measles.....	18.03	97.43	96.45	39.53	0.84	
Scarlet fever.....	0.83		8.86	1.28	0.84	
Diphtheria and croup.....	64.45	283.83	370.36	183.74	0.74	
Whooping cough.....	2.48	77.94	28.15	7.05		
Typhoid fever.....	18.59	11.57	8.93		30.85	4.50
Diarrheal diseases and cholera infantum.....	204.58	6,703.04	1,670.40	572.59	82.63	371.07
Malarial fever.....	120.64	628.54	270.05	140.28	108.76	119.19
Stillbirths.....	214.43	10,118.02				
Inanition, debility, and atrophy.....	313.17	6,566.04	1,465.00	492.26	21.02	778.12
Tubercular diseases.....	404.89	1,091.19	408.93	191.20	510.93	490.26
Consumption.....	343.75	130.40	60.44	59.94	482.26	474.52
Scrophula and tabes.....	7.85	116.91	42.44	17.85	3.37	2.25
Hydrocephalus.....	6.61	175.37	57.87	19.13	0.84	
Inflammation of the brain.....	41.32	662.51	239.19	90.54	20.23	11.24
Diseases of the bones and joints.....	5.37			8.83	4.22	11.24
Cancer and tumor.....	70.65		3.86	2.55	34.57	287.86
Diabetes.....	4.64				3.37	15.74
Diseases of the nervous system.....	306.06	6,878.41	1,697.47	588.61	119.72	636.44
Diseases of the circulatory system.....	199.97	889.71	84.87	36.98	62.74	775.87
Diseases of the respiratory system.....	268.55	2,390.78	898.89	327.74	135.74	521.75
Pneumonia.....	141.30	867.37	358.78	136.45	97.80	267.02
Diseases of the digestive system.....	134.69	1,052.22	378.07	135.18	80.94	270.62
Diseases of the urinary system.....	108.66	38.97	15.43	8.93	91.06	332.84
Bright's disease.....	92.13			2.55	82.03	276.62
Affections connected with pregnancy.....	a55.99				a55.99	
Childbirth and puerperal septicæmia.....	a38.88				a38.88	
Accidents and injuries.....	125.19	175.87	84.87	110.95	103.70	204.65
Suicides.....	15.29				13.49	47.23

a Per 100,000 females 15 to 45 years of age.

## VITAL AND SOCIAL STATISTICS.

## DEATH RATES FROM CERTAIN CAUSES—Continued.

CITIES AND CAUSES.	All ages.	Under 1 year.	Under 5 years.	Under 15 years.	15 to 45 years.	45 years and over.
New York.....	2,862.67	36,840.54	11,685.27	4,750.98	1,347.20	4,711.00
Measles.....	27.32	342.54	240.46	94.01	0.48	.....
Scarlet fever.....	24.15	72.82	160.31	80.25	1.01	.....
Diphtheria and croup.....	123.41	534.04	909.61	418.21	4.18	4.60
Whooping cough.....	29.63	685.08	283.53	102.20	0.24	0.41
Typhoid fever.....	22.97	2.70	6.68	9.63	30.56	20.71
Diarrheal diseases and cholera infantum.....	301.26	8,552.70	2,359.64	904.52	24.11	173.10
Malarial fever.....	16.04	37.76	31.58	17.43	11.94	20.83
Stillbirths.....	217.91	8,906.08	.....	.....	.....	.....
Inanition, debility, and atrophy.....	99.32	3,411.91	820.96	311.00	1.43	55.52
Tubercular diseases.....	501.42	2,133.46	935.33	418.61	501.00	652.68
Consumption.....	387.45	883.00	185.16	87.59	480.06	607.83
Scrofula and tabes.....	5.74	118.68	40.68	16.05	1.70	0.81
Hydrocephalus.....	40.26	741.72	319.40	131.61	5.34	8.03
Inflammation of the brain.....	61.11	879.28	404.41	170.59	12.41	33.13
Diseases of the bones and joints.....	6.86	10.79	7.20	11.01	4.30	8.20
Cancer and tumor.....	62.89	10.70	7.29	3.67	20.60	285.48
Diabetes.....	7.66	.....	.....	0.69	2.86	36.88
Diseases of the nervous system.....	228.87	2,440.93	864.08	351.95	66.48	570.54
Diseases of the circulatory system.....	145.05	364.12	88.87	61.22	84.74	505.00
Diseases of the respiratory system.....	565.10	5,914.88	2,408.83	970.33	228.57	1,001.04
Pneumonia.....	337.86	2,048.61	1,148.85	408.43	187.04	622.76
Diseases of the digestive system.....	100.97	795.86	284.99	102.26	54.07	261.45
Diseases of the urinary system.....	167.76	151.04	74.08	38.98	108.74	605.34
Bright's disease.....	85.20	.....	.....	3.67	56.58	331.88
Affections connected with pregnancy.....	283.11	.....	.....	.....	.....	.....
Childbirth and puerperal septicæmia.....	255.72	.....	.....	.....	.....	.....
Accidents and injuries.....	113.77	345.24	157.88	90.57	102.05	194.32
Suicides.....	14.98	.....	.....	.....	10.71	36.05
Omaha.....	994.65	14,225.20	3,920.16	1,729.37	406.00	1,780.78
Measles.....	9.26	211.79	61.49	25.07	2.36	.....
Scarlet fever.....	3.56	12.30	12.30	9.34	1.18	.....
Diphtheria and croup.....	102.53	705.97	596.45	324.40	3.54	8.14
Whooping cough.....	7.83	105.89	67.64	25.87	.....	.....
Typhoid fever.....	44.86	30.74	30.74	30.34	51.96	48.81
Diarrheal diseases and cholera infantum.....	89.00	2,905.05	694.83	206.06	8.27	24.41
Malarial fever.....	12.10	35.30	6.15	11.67	14.17	.....
Stillbirths.....	51.26	2,541.48	.....	.....	.....	.....
Inanition, debility, and atrophy.....	18.51	600.07	129.13	49.01	1.18	24.41
Tubercular diseases.....	106.80	600.07	200.06	107.36	96.84	140.44
Consumption.....	67.64	70.60	18.45	11.67	87.39	105.76
Scrofula and tabes.....	4.27	0.15	0.15	7.00	2.36	8.14
Hydrocephalus.....	8.54	211.79	61.49	23.01	.....	.....
Inflammation of the brain.....	25.68	317.68	122.98	58.35	7.09	32.54
Diseases of the bones and joints.....	0.71	.....	.....	2.33	.....	.....
Cancer and tumor.....	20.65	35.30	6.15	2.33	11.81	140.44
Diabetes.....	1.42	.....	.....	.....	1.18	8.14
Diseases of the nervous system.....	82.59	1,164.84	319.74	137.70	20.52	252.20
Diseases of the circulatory system.....	56.96	352.98	86.08	46.68	37.79	211.52
Diseases of the respiratory system.....	172.30	2,400.28	817.81	352.41	61.41	284.74
Pneumonia.....	91.13	953.05	319.74	140.08	49.60	195.25
Diseases of the digestive system.....	37.74	428.58	110.68	49.01	23.02	81.85
Diseases of the urinary system.....	14.95	.....	.....	4.07	11.81	73.22
Bright's disease.....	6.41	.....	.....	2.33	7.09	10.27
Affections connected with pregnancy.....	275.61	.....	.....	.....	.....	.....
Childbirth and puerperal septicæmia.....	269.89	.....	.....	.....	.....	.....
Accidents and injuries.....	63.37	282.39	92.23	44.34	146.44	10.27
Suicides.....	4.98	.....	.....	.....	.....	.....
Philadelphia.....	2,267.32	29,615.68	9,083.20	3,596.23	1,048.61	3,777.52
Measles.....	10.32	147.15	96.21	38.26	0.96	.....
Scarlet fever.....	17.86	34.62	113.53	60.80	1.43	0.61
Diphtheria and croup.....	89.61	259.67	584.97	281.89	2.08	2.67
Whooping cough.....	9.36	276.98	80.48	32.84	0.18	0.61
Typhoid fever.....	73.55	25.97	29.83	35.58	103.22	45.20
Diarrheal diseases and cholera infantum.....	153.01	4,241.32	1,198.80	437.89	19.82	198.08
Malarial fever.....	5.73	30.30	10.58	5.82	3.93	10.70
Stillbirths.....	138.21	6,292.44	.....	.....	.....	.....
Inanition, debility, and atrophy.....	224.55	6,686.57	1,646.10	590.18	10.18	291.76
Tubercular diseases.....	360.85	1,480.14	608.06	273.84	386.98	417.10
Consumption.....	279.57	112.52	60.61	43.11	300.44	384.74
Scrofula and tabes.....	7.93	129.84	42.38	16.76	8.75	6.08
Hydrocephalus.....	13.66	229.38	104.87	49.79	2.14	1.54
Inflammation of the brain.....	55.68	986.70	388.70	102.50	11.79	21.67
Diseases of the bones and joints.....	4.01	21.64	11.55	7.18	2.86	2.67
Cancer and tumor.....	55.88	4.33	2.89	2.74	22.80	280.64
Diabetes.....	4.58	.....	.....	0.84	2.86	15.92
Diseases of the nervous system.....	305.36	4,661.13	1,549.98	603.47	58.75	507.00
Diseases of the circulatory system.....	177.66	1,138.23	270.02	126.02	76.07	546.03
Diseases of the respiratory system.....	330.38	2,665.06	1,411.43	570.29	134.29	584.22
Pneumonia.....	187.11	1,345.97	612.87	249.05	103.93	330.37
Diseases of the digestive system.....	93.60	696.79	202.05	84.16	62.50	228.01
Diseases of the urinary system.....	78.04	43.28	27.90	16.42	45.00	205.57
Bright's disease.....	34.67	.....	.....	3.08	21.25	120.71
Affections connected with pregnancy.....	224.36	.....	.....	.....	.....	.....
Childbirth and puerperal septicæmia.....	214.63	.....	.....	.....	.....	.....
Accidents and injuries.....	88.64	406.82	145.28	88.13	76.07	130.47
Suicides.....	0.07	.....	.....	.....	9.82	20.56
Pittsburg.....	2,181.74	25,373.62	8,773.15	3,644.05	978.47	3,327.03
Measles.....	54.48	341.13	435.18	164.60	.....	.....
Scarlet fever.....	29.75	16.24	184.51	86.63	0.70	.....
Diphtheria and croup.....	189.42	276.15	1,008.79	563.45	8.96	6.10
Whooping cough.....	7.12	162.44	59.18	21.52	.....	.....

<sup>a</sup> Per 100,000 females 15 to 45 years of age.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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## DEATH RATES FROM CERTAIN CAUSES—Continued.

CITIES AND CAUSES.	All ages.	Under 1 year.	Under 5 years.	Under 15 years.	15 to 45 years.	45 years and over.
<b>Pittsburg—Continued.</b>						
Typhoid fever.....	127.40	32.49	31.33	59.51	191.58	45.74
Diarrheal diseases and cholera infantum.....	192.78	4,288.50	1,305.53	490.01	10.79	146.38
Malarial fever.....	6.71	32.49	17.41	8.86	5.86	12.20
Stillbirths.....	168.47	6,530.21				
Inanition, debility, and atrophy.....	77.53	2,176.74	515.25	150.98	5.17	94.54
Tubercular diseases.....	223.97	1,202.08	452.58	190.26	221.60	298.85
Consumption.....	149.10	52.49	41.78	22.79	201.08	250.16
Scrofula and tabes.....	12.15	120.95	52.22	25.32	5.54	0.10
Hydrocephalus.....	14.07	422.35	114.89	44.32		
Inflammation of the brain.....	42.75	501.04	236.74	97.50	13.40	24.40
Diseases of the bones and joints.....	4.61	10.24	6.96	0.53	1.59	12.20
Cancer and tumor.....	39.11			2.53	12.07	186.02
Diabetes.....	4.61		8.48	3.80	1.58	18.30
Diseases of the nervous system.....	194.03	2,907.73	898.20	354.53	40.37	402.54
Diseases of the circulatory system.....	87.17	601.04	139.20	65.84	42.75	311.05
Diseases of the respiratory system.....	408.00	3,330.08	1,037.00	678.07	144.08	783.73
Pneumonia.....	244.74	1,835.61	895.84	351.74	118.75	524.52
Diseases of the digestive system.....	116.00	1,315.70	410.81	169.54	49.87	268.86
Diseases of the urinary system.....	44.84	48.73	24.37	13.93	21.37	210.42
Bright's disease.....	20.53			1.27	14.25	91.49
Affections connected with pregnancy.....	291.55				291.55	
Childbirth and puerperal septicæmia.....	299.51				299.51	
Accidents and injuries.....	139.14	357.37	153.18	96.23	144.08	222.62
Suicides.....	6.29				9.50	9.15
<b>Providence.....</b>	<b>2,236.10</b>	<b>28,510.56</b>	<b>9,027.17</b>	<b>3,455.30</b>	<b>1,036.76</b>	<b>3,889.12</b>
Measles.....	31.78	605.08	341.81	120.37	1.41	
Scarlet fever.....	0.08		70.11	35.23		
Diphtheria and croup.....	93.84	242.08	692.38	349.35	7.03	
Whooping cough.....	31.78	887.45	333.04	123.90		
Typhoid fever.....	40.11	40.34	8.70	11.74	61.90	18.08
Diarrheal diseases and cholera infantum.....	166.48	5,123.03	1,446.10	490.14	10.88	145.70
Malarial fever.....	23.70	121.02	78.88	44.04	14.07	48.57
Stillbirths.....	124.11	0,015.57				
Inanition, debility, and atrophy.....	63.57	2,420.38	569.08	193.70		67.25
Tubercular diseases.....	592.75	1,895.98	762.49	304.03	424.83	347.44
Consumption.....	303.45	484.07	131.46	73.39	410.76	313.32
Scrofula and tabes.....	12.11	303.05	105.17	41.10	2.81	
Hydrocephalus.....	28.00	443.73	210.34	108.02		
Inflammation of the brain.....	42.38	605.08	315.51	120.24	7.03	29.89
Diseases of the bones and joints.....	6.81			14.68	4.22	3.74
Cancer and tumor.....	05.08	40.34	17.53	5.87	25.32	246.57
Diabetes.....	0.81		8.76	8.81	1.41	18.68
Diseases of the nervous system.....	221.72	2,804.05	981.00	304.03	82.35	545.45
Diseases of the circulatory system.....	160.43	322.71	87.04	41.10	63.30	571.00
Diseases of the respiratory system.....	337.51	3,180.77	1,314.64	475.50	142.08	683.68
Pneumonia.....	184.64	1,089.15	446.08	197.34	112.54	399.75
Diseases of the digestive system.....	120.32	1,250.50	473.27	187.34	43.61	205.25
Diseases of the urinary system.....	90.89	40.34	26.29	20.36	50.27	800.35
Bright's disease.....	52.21			8.81	33.76	150.91
Affections connected with pregnancy.....	251.24				251.24	
Childbirth and puerperal septicæmia.....	240.45				240.45	
Accidents and injuries.....	84.75	322.71	90.41	49.91	71.74	164.38
Suicides.....	6.05				5.63	14.94
<b>Rochester.....</b>	<b>1,734.93</b>	<b>19,103.45</b>	<b>5,607.87</b>	<b>2,219.27</b>	<b>823.54</b>	<b>3,589.08</b>
Measles.....	20.91	200.90	148.60	68.81		
Scarlet fever.....	0.75			2.46		
Diphtheria and croup.....	45.56	200.90	254.90	137.03	4.30	8.67
Whooping cough.....	8.22	172.41	77.89	27.03		
Typhoid fever.....	39.58			22.12	50.17	39.01
Diarrheal diseases and cholera infantum.....	182.23	6,810.34	1,486.94	521.03	12.00	95.36
Malarial fever.....	8.96	7.08		4.92	10.03	13.00
Stillbirths.....	2.99	157.93				
Inanition, debility, and atrophy.....	103.81	2,551.72	680.18	223.05	4.30	105.06
Tubercular diseases.....	291.27	1,551.72	601.86	260.51	303.03	204.76
Consumption.....	213.00	241.38	106.21	54.07	280.00	277.42
Scrofula and tabes.....	2.24	68.97	14.10	4.02	1.43	
Hydrocephalus.....	6.72	241.38	63.73	22.12		
Inflammation of the brain.....	67.22	1,000.00	410.68	176.95	20.07	17.34
Diseases of the bones and joints.....	1.49		7.08	2.46	1.43	
Cancer and tumor.....	40.33		7.08	2.46	20.07	169.05
Diabetes.....	5.23					30.94
Diseases of the nervous system.....	242.73	3,620.69	1,154.15	444.84	54.47	459.47
Diseases of the circulatory system.....	134.48	344.83	92.05	51.61	53.04	528.83
Diseases of the respiratory system.....	313.08	2,689.66	1,118.74	447.80	118.98	667.53
Pneumonia.....	185.22	1,344.83	531.05	209.99	97.48	416.12
Diseases of the digestive system.....	80.06	517.24	127.45	56.53	55.91	199.89
Diseases of the urinary system.....	56.76	34.48	21.24	12.20	27.24	225.40
Bright's disease.....	29.87			2.46	15.77	121.37
Affections connected with pregnancy.....	232.82				232.82	
Childbirth and puerperal septicæmia.....	219.15				219.15	
Accidents and injuries.....	90.37	172.41	70.81	49.15	75.07	173.89
Suicides.....	10.46				10.03	30.34
<b>St. Louis.....</b>	<b>1,913.58</b>	<b>26,480.50</b>	<b>7,264.61</b>	<b>2,879.26</b>	<b>917.24</b>	<b>3,340.26</b>
Measles.....	0.44		3.97	1.41		
Scarlet fever.....	26.78	47.29	148.82	85.01		
Diphtheria and croup.....	01.76	170.23	347.26	191.11	2.95	
Whooping cough.....	5.08	122.94	40.61	18.97		
Typhoid fever.....	32.10	18.01	15.87	10.86	47.25	12.73
Diarrheal diseases and cholera infantum.....	118.42	2,770.95	754.04	278.23	26.58	107.48
Malarial fever.....	50.69	226.97	91.28	56.21	40.93	73.54
Stillbirths.....	175.75	7,608.98				
Inanition, debility, and atrophy.....	206.30	5,220.35	1,294.48	429.99	8.80	422.84

a Per 100,000 females 15 to 45 years of age.



## DEATH RATES FROM CERTAIN CAUSES—Continued.

CITIES AND CAUSES.	All ages.	Under 1 year.	Under 5 years.	Under 15 years.	15 to 45 years.	45 years and over.
<b>St. Louis—Continued.</b>						
Tubercular diseases	248.58	1,229.43	410.76	170.73	274.67	328.84
Consumption	184.61	85.11	41.67	26.70	249.77	288.40
Scrofula and tabes	6.86	75.06	23.81	9.84	5.91	4.24
Hydrocephalus	12.62	302.63	101.20	37.24	0.84	2.83
Inflammation of the brain	39.40	747.12	232.17	92.04	13.02	19.80
Diseases of the bones and joints	5.09	18.91	11.91	4.92	4.22	8.40
Cancer and tumor	48.03	8.97	2.81	21.94	227.68	
Diabetes	2.88	9.40	1.98	0.70	2.11	9.90
Diseases of the nervous system	240.39	4,671.84	1,194.56	449.67	68.77	398.80
Diseases of the circulatory system	104.26	245.89	59.53	40.75	65.82	363.44
Diseases of the respiratory system	271.16	2,496.69	970.33	384.32	114.34	572.74
Pneumonia	141.44	917.84	398.85	160.19	81.43	306.87
Diseases of the digestive system	94.30	671.46	200.42	85.72	53.16	251.72
Diseases of the urinary system	59.32	47.29	39.09	26.70	27.85	231.02
Bright's disease	12.84			1.41	5.91	59.40
Affections connected with pregnancy	a78.30				a78.30	
Childbirth and puerperal septicæmia	a61.28				a61.28	
Accidents and injuries	92.97	245.89	97.23	50.91	89.45	189.70
Suicides	17.71				17.80	55.15
<b>St. Paul</b>	<b>1,682.24</b>	<b>22,881.57</b>	<b>7,154.13</b>	<b>3,328.78</b>	<b>606.17</b>	<b>2,290.01</b>
Measles	10.61	207.81	75.98	34.14		
Scarlet fever	25.63	25.91	134.43	82.91		
Diphtheria and croup	104.39	207.31	467.59	321.90	9.22	
Whooping cough	5.23	103.65	85.07	17.07		
Typhoid fever	69.09	25.91	11.69	34.14	92.16	51.19
Diarrheal diseases and cholera infantum	227.55	5,104.95	1,636.57	690.14	13.17	57.59
Malarial fever	1.60				1.32	
Stillbirths	194.61	6,711.58				
Inanition, debility, and atrophy	129.17	3,446.43	865.04	360.92	6.58	121.67
Tubercular diseases	207.28	1,347.50	531.83	263.33	176.42	211.15
Consumption	125.42	129.57	40.70	29.26	164.57	191.95
Scrofula and tabes	4.61	61.83	11.69	4.88	5.27	
Hydrocephalus	18.77	285.05	116.90	60.97		
Inflammation of the brain	57.83	855.14	350.69	165.83	6.58	19.20
Diseases of the bones and joints	0.75	25.91	5.84	2.44		
Cancer and tumor	53.04		17.59	7.32	10.53	204.75
Diabetes	8.75				2.03	19.20
Diseases of the nervous system	172.73	2,617.26	876.73	497.26	81.60	230.54
Diseases of the circulatory system	82.61	466.44	119.90	60.97	53.98	281.53
Diseases of the respiratory system	221.54	2,384.04	981.04	463.36	64.51	558.81
Pneumonia	119.41	906.97	385.70	173.15	56.61	287.93
Diseases of the digestive system	60.08	362.79	111.05	53.65	40.81	172.70
Diseases of the urinary system	37.55	25.91	17.53	14.03	32.91	121.57
Bright's disease	16.62			2.44	14.48	63.98
Affections connected with pregnancy	a70.16				a70.16	
Childbirth and puerperal septicæmia	a61.74				a61.74	
Accidents and injuries	76.60	181.39	75.98	58.53	64.51	172.76
Suicides	10.51				10.53	88.89
<b>San Francisco</b>	<b>2,361.23</b>	<b>32,587.50</b>	<b>8,913.65</b>	<b>3,223.59</b>	<b>1,366.85</b>	<b>4,392.99</b>
Measles	11.04	295.48	130.57	44.87		1.85
Scarlet fever	6.60	21.11	52.23	26.64	0.58	
Diphtheria and croup	58.86	443.22	504.87	232.70	4.66	3.69
Whooping cough	8.36	337.70	104.46	35.05		
Typhoid fever	55.52	42.21	39.17	40.66	69.36	33.21
Diarrheal diseases and cholera infantum	87.63	3,820.18	896.59	293.05	12.24	59.04
Malarial fever	9.36	30.47		14.02	5.25	16.61
Stillbirths	115.39	7,281.65				
Inanition, debility, and atrophy	158.53	6,922.75	1,514.62	493.56	11.06	171.59
Tubercular diseases	447.83	1,646.26	644.15	267.81	482.62	583.03
Consumption	378.26	274.88	95.75	47.67	462.81	553.51
Scrofula and tabes	6.35	84.42	43.52	18.23	3.50	
Hydrocephalus	7.02	189.95	69.64	26.64	1.17	
Inflammation of the brain	53.61	1,076.40	490.88	168.26	13.41	29.52
Diseases of the bones and joints	2.68	21.11	4.35	7.01	1.75	
Cancer and tumor	79.93		8.70	4.21	29.73	339.43
Diabetes	5.69				2.33	23.99
Diseases of the nervous system	261.54	4,094.55	1,236.07	452.90	81.02	584.87
Diseases of the circulatory system	202.68	443.22	108.81	68.89	110.75	684.50
Diseases of the respiratory system	404.02	4,812.16	1,867.17	677.25	191.18	730.63
Pneumonia	228.76	2,279.44	918.35	330.91	181.73	407.76
Diseases of the digestive system	124.75	1,097.51	304.67	109.87	81.02	287.82
Diseases of the urinary system	97.66	63.32	17.41	19.63	74.61	276.76
Bright's disease	58.53			2.80	52.46	153.14
Affections connected with pregnancy	a40.70				a40.70	
Childbirth and puerperal septicæmia	a30.87				a30.87	
Accidents and injuries	134.78	168.85	73.99	44.87	133.43	241.70
Suicides	29.77				23.66	68.27
<b>Washington</b>	<b>2,584.78</b>	<b>42,028.02</b>	<b>12,193.69</b>	<b>4,317.44</b>	<b>1,149.61</b>	<b>3,765.17</b>
Measles	2.60	66.71	29.35	9.22		
Scarlet fever	7.81	22.24	68.48	26.11	0.83	
Diphtheria and croup	83.84	222.37	445.10	284.14	5.84	
Whooping cough	13.02	333.50	132.06	46.08		
Typhoid fever	86.81	44.47	29.95	53.76	110.87	54.95
Diarrheal diseases and cholera infantum	256.95	3,185.23	2,259.72	724.95	31.72	180.24
Malarial fever	42.54	111.19	88.04	46.08	36.73	52.76
Stillbirths	219.63	11,251.95				
Inanition, debility, and atrophy	203.57	6,226.37	1,486.92	478.06	5.01	340.60
Tubercular diseases	424.06	1,912.39	831.50	356.33	435.77	490.16
Consumption	358.95	489.22	317.93	175.09	418.24	465.98
Scrofula and tabes	12.59	222.87	102.71	89.93	1.67	2.20
Hydrocephalus	14.76	444.74	141.84	49.15	1.67	
Inflammation of the brain	33.42	756.06	269.01	90.62	10.85	10.99
Diseases of the bones and joints	4.84			1.54	3.34	10.99

a Per 100,000 females 15 to 45 years of age.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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## DEATH RATES FROM CERTAIN CAUSES—Continued.

CITIES AND CAUSES.	All ages.	Under 1 year.	Under 5 years.	Under 15 years.	15 to 45 years.	45 years and over.
Washington—Continued.						
Cancer and tumor .....	49.91			1.54	27.55	178.04
Diabetes .....	3.04				0.83	13.19
Diseases of the nervous system .....	284.30	4,536.36	1,266.81	419.30	83.48	619.83
Diseases of the circulatory system .....	132.38	244.61	58.69	45.08	53.44	450.59
Diseases of the respiratory system .....	365.03	4,060.88	1,819.52	632.79	130.91	582.47
Pneumonia .....	210.08	1,823.44	865.74	313.33	111.86	320.91
Diseases of the digestive system .....	116.76	1,480.88	523.86	176.03	55.10	193.42
Diseases of the urinary system .....	66.84	22.24	29.35	13.82	38.40	217.60
Bright's disease .....	20.48			1.54	18.37	83.52
Affections connected with pregnancy .....	608.80				608.89	
Childbirth and puerperal septicæmia .....	641.33				641.33	
Accidents and injuries .....	94.19	822.77	254.34	104.44	74.30	181.88
Suicides .....	9.11				7.51	26.38

a Per 100,000 females 15 to 45 years of age.

## SCARLET FEVER.

The total number of deaths in the 28 cities from scarlet fever during the census year was 1,662, giving an average death rate of 17.14 per 100,000, ranging from 30.80 in Newark, 29.75 in Pittsburg, and 26.78 in St. Louis to 0.75 in Rochester, 0.83 in New Orleans, and 3.56 in Omaha. The greatest death rate from this cause was 104.88, in ward 30 in Cleveland.

In the 28 largest English cities the death rate from this cause during the year 1890 was 31 per 100,000, ranging from 94 in Liverpool, 80 in Sheffield, and 74 in Manchester to 5 in Norwich, 10 in Brighton, and 19 in London.

In 1890 in certain other European cities the corresponding rate was: Edinburg, 18.4; Glasgow, 23.5; Dublin, 2.2; Paris, 9.9; Brussels, 2.1; Amsterdam, 2.7; Copenhagen, 41.9; Stockholm, 142.1; St. Petersburg, 124.4; Moscow, 75.5; Vienna, 11.5; Buda-Pesth, 52.7, and Rome, 2.6.

In the 28 largest German cities in 1890 the average death rate from scarlet fever per 100,000 of population was 20, ranging from 61 in Chemnitz, 55 in Breslau, 39 in Leipzig, and 37 in Halle to 1 in Dusseldorf, 3 in Bremen, and 4 in Orefeld.

The death rate from scarlet fever in the largest cities of the United States was, therefore, below the average of that from this cause in the largest cities of England or Germany.

The following table shows for the 28 cities and for their aggregate the death rates from scarlet fever during the census year for each of 3 age groups per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from this cause:

CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 years and over.	CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 years and over.
Total .....	17.14	105.75	25.54	0.99	Denver .....	15.93	156.94	12.72	
Newark .....	30.80	188.98	54.17	1.61	Baltimore .....	13.58	88.83	19.54	0.33
Pittsburg .....	29.75	184.51	33.83	0.03	Kansas city .....	13.50	86.88	31.08	
St. Louis .....	26.78	148.82	50.04		Louisville .....	13.03	84.06	24.83	
St. Paul .....	25.53	134.43	46.03		Jersey city .....	12.88	70.23	18.16	1.80
New York .....	24.15	160.31	31.77	1.49	Milwaukee .....	11.74	71.13	0.36	0.78
Cleveland .....	21.43	115.89	34.33	0.57	Buffalo .....	10.95	66.85	11.80	
Indianapolis .....	20.87	169.28	29.60		Providence .....	9.08	70.11	17.06	
Detroit .....	19.43	97.24	30.57	1.46	Washington .....	7.81	68.48	6.76	0.61
Minneapolis .....	19.42	108.26	33.08	1.71	Cincinnati .....	7.75	47.87	11.71	0.49
Brooklyn .....	19.10	113.42	28.70	1.08	Boston .....	7.36	39.90	17.85	1.20
Chicago .....	18.37	96.60	22.85	2.02	San Francisco .....	6.69	52.23	14.48	0.44
Allegheny .....	18.05	117.16	22.99		Omaha .....	3.56	12.30	7.52	1.03
Philadelphia .....	17.86	113.53	31.37	1.20	New Orleans .....	0.83	3.86		0.61
					Rochester .....	0.75		3.79	

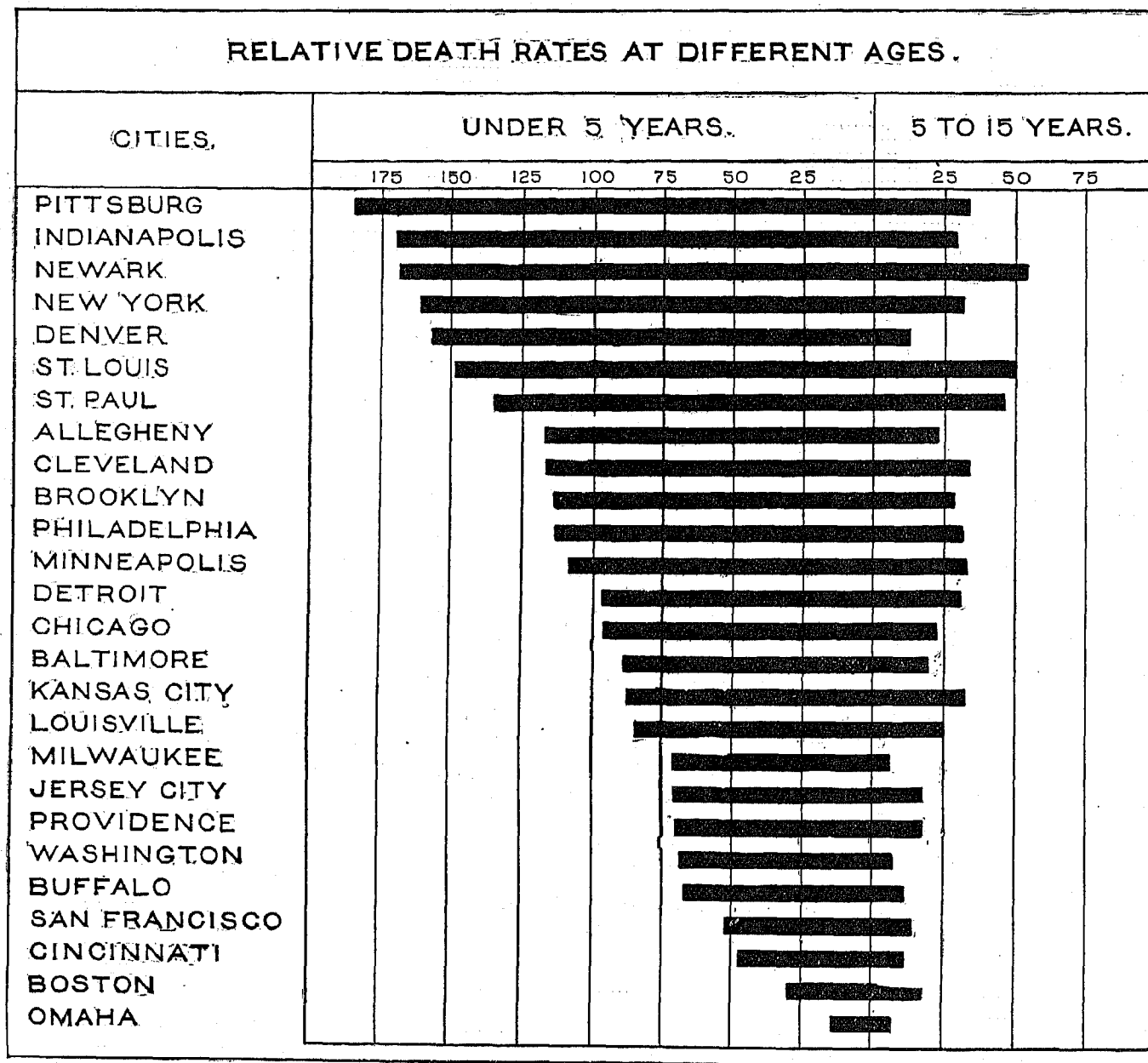
It will be seen from this table that the death rate from scarlet fever was very much greater among children under 5 years of age than it was in any other age period, and that for persons 15 years of age and over it was less than 1 in 100,000 persons.

The greatest death rates among those from 5 to 15 years of age were in Newark, 54.17; St. Louis, 50.04; St. Paul, 46.03; Cleveland, 34.33; Pittsburg, 33.83, and Minneapolis, 33.08. The average death rate in this age group from this cause was 25.54.

Among those 15 years of age and over the greatest death rate was in Chicago, being 2.02 per 100,000 of population of this group.



The following diagram shows the relative death rates from scarlet fever in 26 cities during the census year, with distinction of 2 age groups:



## CITIES OF 100,000 INHABITANTS AND UPWARD.

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The following table shows for the 28 cities the death rates from scarlet fever during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	17.14	17.81	24.84	24.66	26.24	3.55	3.84	24.36	13.16	13.01
								(Of mothers.)		
Boston.....	7.36	7.50	9.89	6.63	12.88	3.19		9.41	5.60	4.76
Brooklyn .....	19.10	19.36	26.37	32.35	22.11	4.90		28.58	10.18	15.84
Buffalo .....	10.95	11.00	16.33	15.86	16.58	1.12		16.39	3.10	11.50
Cincinnati .....	7.75	8.06	10.28	17.43	5.99	1.40		16.55	5.90	3.15
Cleveland .....	21.43	21.68	32.22	30.81	33.09	4.13		35.77	18.66	19.95
Detroit .....	19.43	19.27	29.64	27.96	30.55	3.71	28.95	25.91	23.65	14.50
Indianapolis .....	20.87	22.85	26.88	31.58	16.11			20.54		15.66
Jersey city .....	12.88	13.06	17.66	14.44	19.69	3.76		15.75	13.41	6.03
Milwaukee .....	11.74	11.70	18.48	33.04	14.40	1.23		25.19	8.99	3.80
Minneapolis .....	19.42	19.59	29.16	18.54	40.87	3.30		17.67		12.02
Newark .....	30.80	31.54	45.02	53.78	37.66	1.81		50.86	9.78	27.10
New York .....	24.15	24.44	38.70	35.12	40.37	5.34	7.79	39.01	21.03	15.60
Pittsburg .....	29.75	30.35	40.63	41.88	39.65	8.20	12.57	37.96	30.22	19.84
Providence .....	9.08	9.37	10.24	4.14	17.71	7.49		11.50		
Rochester .....	0.75	0.75	1.07	2.50				2.08		
San Francisco .....	6.69	7.39	10.64	14.48	8.40	1.97		1.33		
St. Paul .....	25.53	25.83	39.46	32.25	44.17	5.65		27.86	18.62	19.37
Washington .....	7.81	7.76	8.81	6.52	17.32		7.93	7.20	17.70	
								(Of persons.)		
Allegheny .....	18.05	18.40	24.78					24.78		
Baltimore .....	13.58	14.16	16.41			4.37	10.40	16.41		7.37
Chicago .....	18.37	18.62	29.43			3.34		29.43	4.28	1.86
Denver .....	15.93	16.56	21.74					21.74		
Kansas city .....	13.56	15.15	18.33					18.33		
Louisville .....	13.03	15.85	19.27					19.27		
New Orleans .....	0.83	1.13	1.39					1.39		
Omaha .....	3.56	3.63	4.96					4.96		
Philadelphia .....	17.86	18.53	24.38			2.61		24.38	1.80	1.33
St. Louis .....	20.78	28.25	33.05			1.75	3.69	33.05		1.52

It will be seen from this table that the death rate from scarlet fever per 100,000 of population was much greater among the whites (17.81) than among the colored (3.84).

There were no deaths from this cause among the colored population in New Orleans and Louisville.

The death rate was much greater among the native whites (24.84) than among the foreign born (3.55), owing largely to the much greater number of children of ages specially susceptible to this disease among the native born. It was a little greater among the native whites of whom one or both parents were foreign born (26.24) than among those of whom both parents were native (24.66), but it was much greater for the children of mothers born in the United States (24.36) than of those of mothers born in Ireland (13.16), or of those of mothers born in Germany (13.01.)

The relation between the death rate from scarlet fever and month or season is shown by the table on page 64.

## TYPHOID FEVER.

The total number of deaths from typhoid fever in the 28 cities during the census year was 5,164, giving an average death rate of 53.25 per 100,000, ranging from 217.41 in Denver, 182.36 in Allegheny, and 127.40 in Pittsburg to 18.59 in New Orleans, 19.43 in Detroit, and 22.97 in New York.

The greatest death rate from this cause was 493.47, in ward 12 in Pittsburg.

In the 28 largest English cities the death rate from fever, mainly typhoid fever, for the year 1890 was 19 per 100,000 of population, ranging from 41 in Birkenhead, 35 in Portsmouth and in Sunderland, and 31 in Plymouth to 10 in Brighton, 12 in Birmingham, and 15 in London. In Dublin in 1890 it was 49.

In the 28 largest French cities the average annual death rate from typhoid fever during the 4 years 1886 to 1890 was 49 per 100,000 of population, ranging from 160 in Havre, 103 in Toulon, 100 in Brest, 96 in Marseilles, and 94 in Montpellier to 38 in Paris, in Calais, and in Le Mans, 28 in Lyons, in St. Etienne, in Dijon, and in Orleans, 20 in Lille, and 13 in Angers.

Of the 28 largest German cities the death rate from typhoid fever during the year 1890 was 13 per 100,000 of population, ranging from 45 in Dortmund, 26 in Hamburg, 23 in Dantzic, and 22 in Magdeburg to 8 in Munich and in Dresden, 7 in Hanover, 5 in Dusseldorf, and 2 in Stuttgart.

It will be seen, therefore, that the mortality from typhoid fever was greater in the large cities of the United States than it was in those of England, France, or Germany.

The following table shows for the 28 cities and for their aggregate the death rates from typhoid fever during the census year in the aggregate and for 3 age groups per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from this cause:

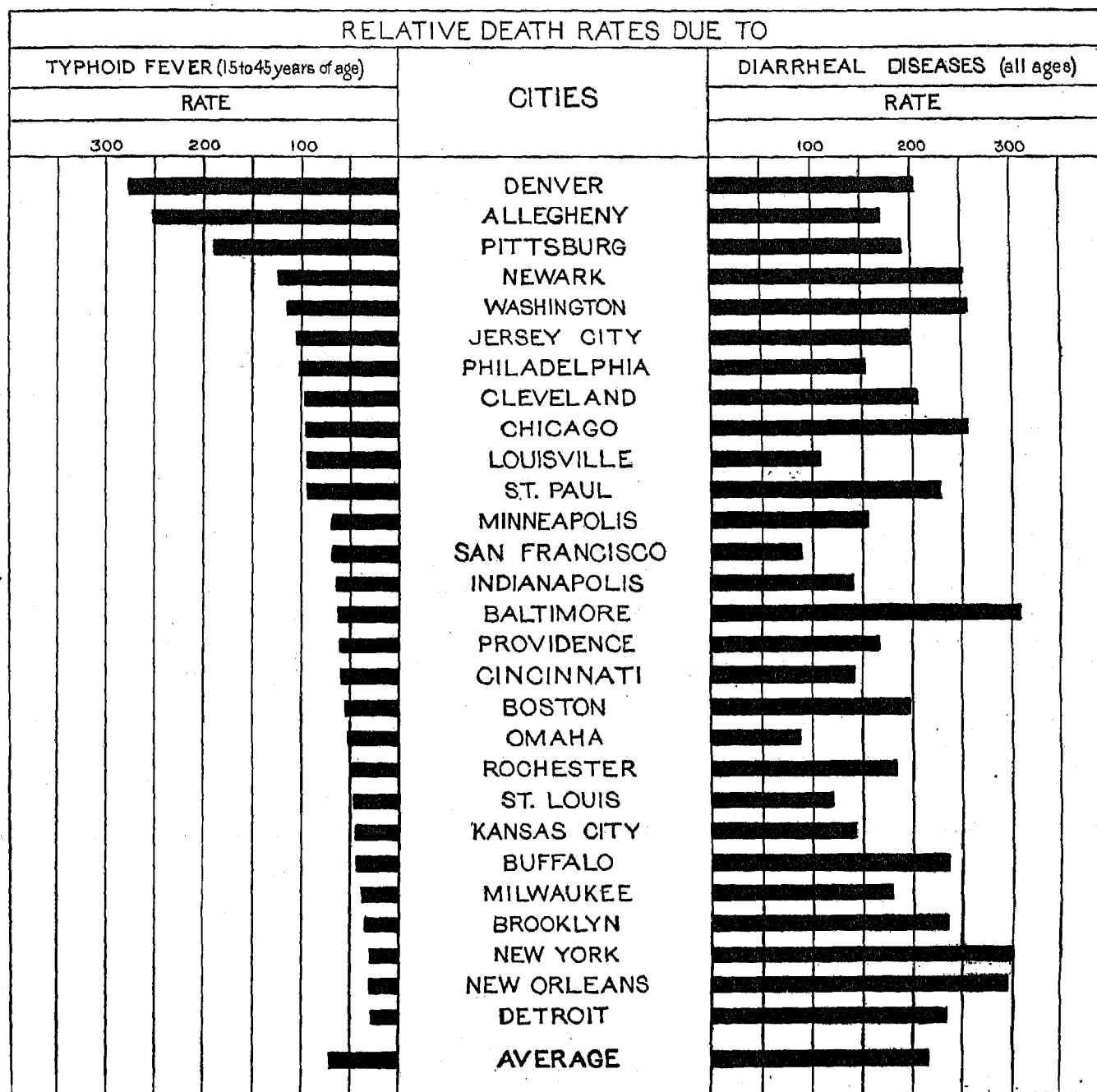
CITIES.	All ages.	5 to 15 years.	15 to 45 years.	45 years and over.	CITIES.	All ages.	5 to 15 years.	15 to 45 years.	45 years and over.
Total .....	53.25	32.15	72.63	34.63	Indianapolis.....	54.06	24.67	65.04	32.70
Denver .....	217.41	133.58	273.17	92.05	Cincinnati.....	50.86	38.48	60.73	33.66
Allegheny .....	182.36	142.53	251.06	112.35	Baltimore.....	46.50	26.44	62.94	38.13
Pittsburg.....	127.40	75.62	191.58	45.74	Omaha.....	44.86	30.09	51.96	43.81
Newark .....	99.54	75.84	124.61	85.63	Providence .....	40.11	13.24	61.90	18.68
Washington .....	85.81	65.35	116.87	54.95	Kansas city.....	39.93	39.95	45.39	34.86
Jersey city.....	82.21	63.57	106.43	53.21	Rochester .....	39.58	33.88	50.17	39.01
Louisville.....	75.72	65.19	93.79	43.98	Boston.....	38.80	19.22	55.21	22.25
Philadelphia.....	73.55	38.28	103.22	45.20	St. Louis.....	32.10	17.40	47.25	12.73
Chicago.....	72.10	38.70	95.65	53.71	Buffalo .....	31.29	15.06	44.09	21.06
St. Paul.....	69.09	50.22	92.16	51.19	Milwaukee .....	29.83	23.33	39.24	30.64
Cleveland.....	62.75	25.30	97.52	34.81	Brooklyn .....	24.06	14.67	35.31	13.13
Minneapolis .....	57.06	40.43	72.10	49.99	New York.....	22.97	11.45	30.56	20.71
San Francisco.....	55.52	41.37	69.36	33.21	Detroit.....	19.43	11.76	29.55	3.09
					New Orleans.....	18.59	7.62	30.35	4.50

It will be seen from this table that by far the heaviest death rate from typhoid fever occurs in persons between 15 and 45 years of age, and hence the number of persons of this group in the population of any city exercises a very considerable influence upon the death rate from typhoid fever in that city. The death rate from this cause among persons 45 years of age and over was remarkably great in Allegheny (112.35), in Denver (92.05), in Newark (85.68), in Chicago (53.71), in Jersey city (53.21), and in Washington (54.95), as compared with the average for this age group, which was 34.63 per 100,000 of population. As a rule the mortality from typhoid fever was greatest in those cities which took their water supply from adjacent rivers.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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The following diagram shows for the 28 cities the relative death rates from typhoid fever in persons between 15 and 45 years of age, and from diarrheal diseases at all ages, the cities being arranged in the order of magnitude of the death rates from typhoid fever:



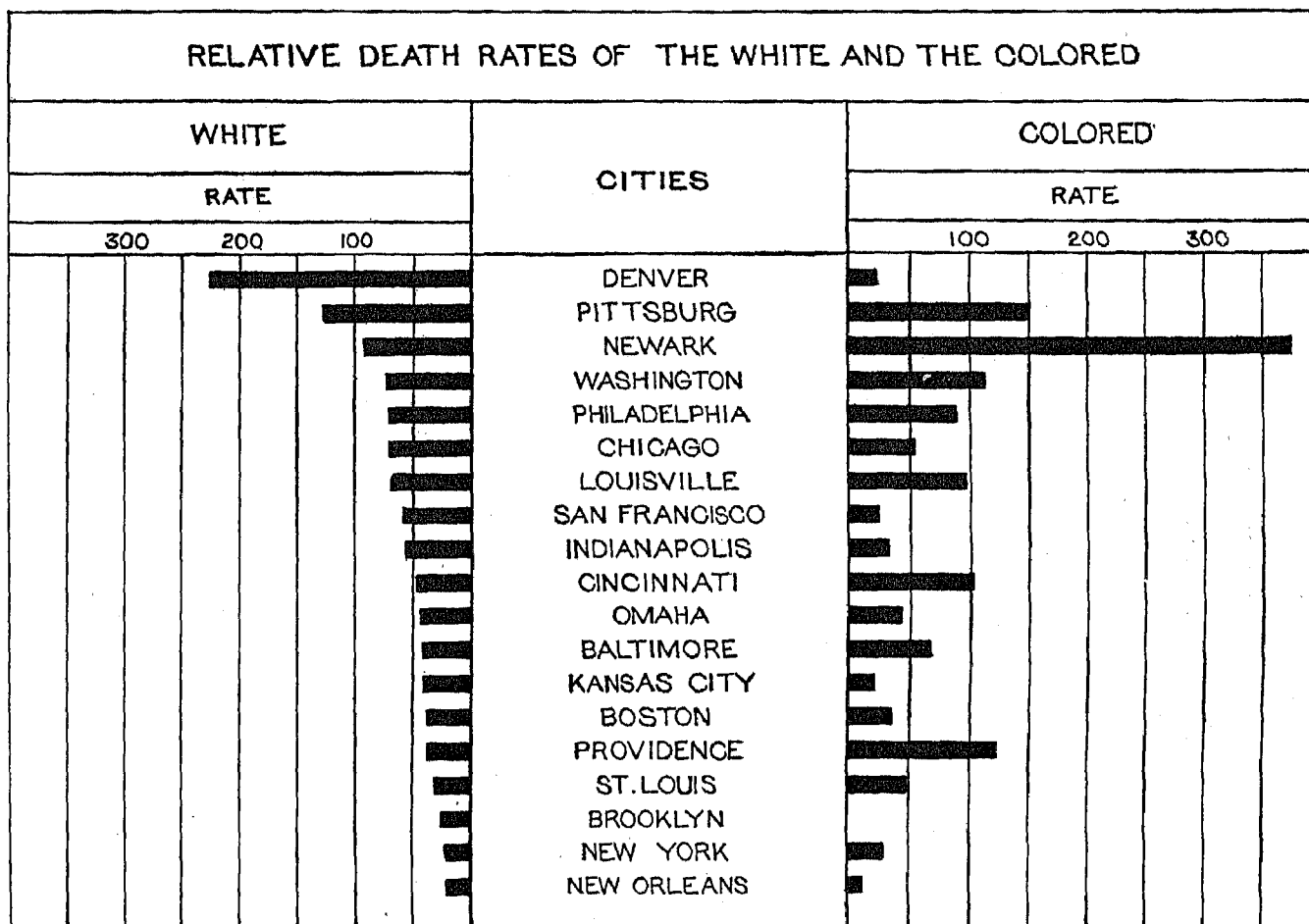
## VITAL AND SOCIAL STATISTICS.

The following table shows for the 28 cities the death rates from typhoid fever during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	53.25	52.66	46.09	42.83	33.51	65.98	64.93	31.44	44.37	37.47
Boston.....	38.80	38.87	27.89	17.68	37.30	58.72	34.92	20.83	52.26	28.56
Brooklyn.....	24.06	24.39	20.95	24.26	18.58	31.45	21.90	21.90	27.50	18.40
Buffalo.....	31.20	31.43	28.43	26.43	29.48	37.00	21.85	21.85	47.81	21.05
Cincinnati.....	50.86	48.73	45.81	43.56	47.17	57.50	102.70	30.18	23.02	44.05
Cleveland.....	62.75	63.10	61.34	56.70	64.18	66.03	32.95	50.91	77.77	68.58
Detroit.....	19.43	19.27	11.53	4.66	15.23	30.88	28.95	5.55	23.65	21.76
Indianapolis.....	54.06	56.09	48.88	56.14	32.21	96.89	32.77	11.08	44.32	46.09
Jersey city.....	82.21	83.35	75.29	84.22	69.67	99.66	78.74	78.74	95.80	59.52
Milwaukee.....	29.83	29.90	25.71	22.03	26.74	36.46	12.60	12.60	17.99	20.90
Minneapolis.....	57.06	57.53	40.83	40.70	40.87	85.93	35.35	35.35	47.85	60.12
Newark.....	99.54	92.93	90.86	96.81	85.87	97.48	374.62	84.70	81.49	104.77
New York.....	22.97	22.89	18.53	19.22	18.21	28.73	27.26	17.44	26.04	25.01
Pittsburg.....	127.40	126.59	96.50	93.88	98.57	191.98	150.81	78.29	161.18	124.42
Providence.....	40.11	37.47	27.31	26.88	27.84	59.68	123.43	23.01	51.13	52.04
Rochester.....	39.58	39.75	39.54	57.60	26.09	40.27	22.93	22.93	26.13	20.35
San Francisco.....	55.52	58.74	49.04	101.38	18.07	74.91	24.73	5.31	24.79	29.77
St. Paul.....	69.09	69.13	47.10	64.49	35.76	101.73	65.62	61.28	68.29	64.37
Washington.....	86.81	74.34	69.76	71.70	62.35	108.01	112.29	61.16	106.18	46.06
								(Of persons.)		
Allegheny.....	182.86	181.01	160.44	.....	.....	241.41	237.34	160.44	343.15	240.91
Baltimore.....	46.50	42.49	41.87	.....	.....	45.21	68.35	41.87	52.28	51.50
Chicago.....	72.19	72.44	61.78	.....	.....	101.64	53.86	51.78	82.82	87.55
Denver.....	217.41	225.05	182.86	.....	.....	360.05	24.56	182.86	118.60	260.56
Kansas city.....	39.93	42.08	33.61	.....	.....	82.38	21.59	33.61	21.62	98.23
Louisville.....	75.72	70.97	73.40	.....	.....	59.67	97.66	73.40	114.00	49.67
New Orleans.....	18.59	21.42	22.30	.....	.....	17.70	10.83	22.30	12.62	26.46
Omaha.....	44.86	44.92	39.65	.....	.....	60.13	42.94	39.65	49.18	24.16
Philadelphia.....	73.55	72.82	70.56	.....	.....	78.03	91.64	70.56	74.82	98.70
St. Louis.....	32.10	31.08	26.77	.....	.....	42.75	48.03	26.77	57.68	40.01

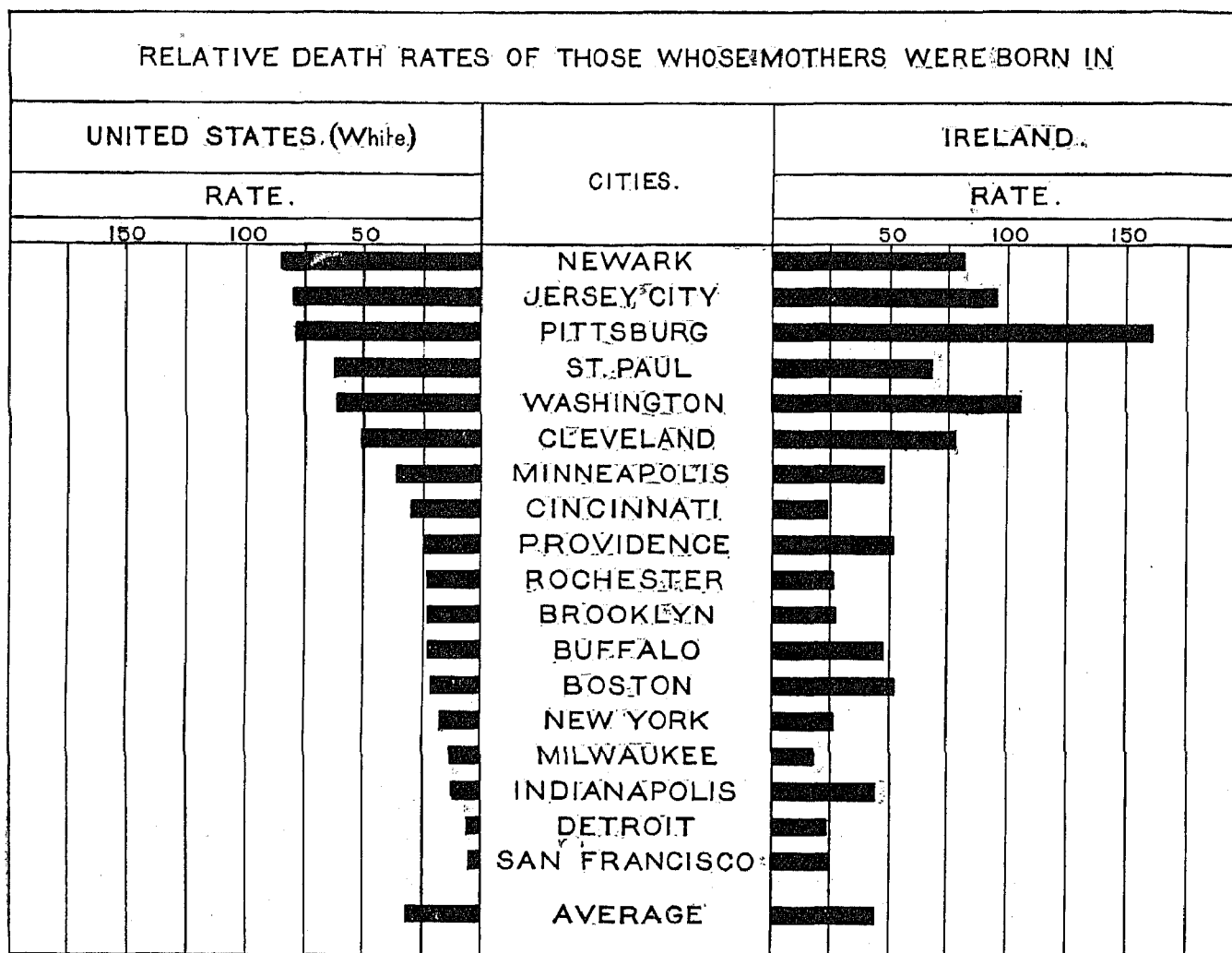
It will be seen from this table that the death rate from typhoid fever was greater among the colored (64.93) than among the whites (52.66), greater among the foreign born white (65.98) than among the native (46.09), greater among the whites of whom both parents were native (42.83) than among those of whom one or both parents were foreign born (33.51), and greater among those whose mothers were born in Ireland (44.37) than among those whose mothers were born in Germany (37.47), or among those whose mothers were born in the United States (31.44).

The following diagram shows for 19 cities the relative death rates from typhoid fever during the census year among the white and among the colored population, the cities being arranged in the order of magnitude of the ratio of the former:



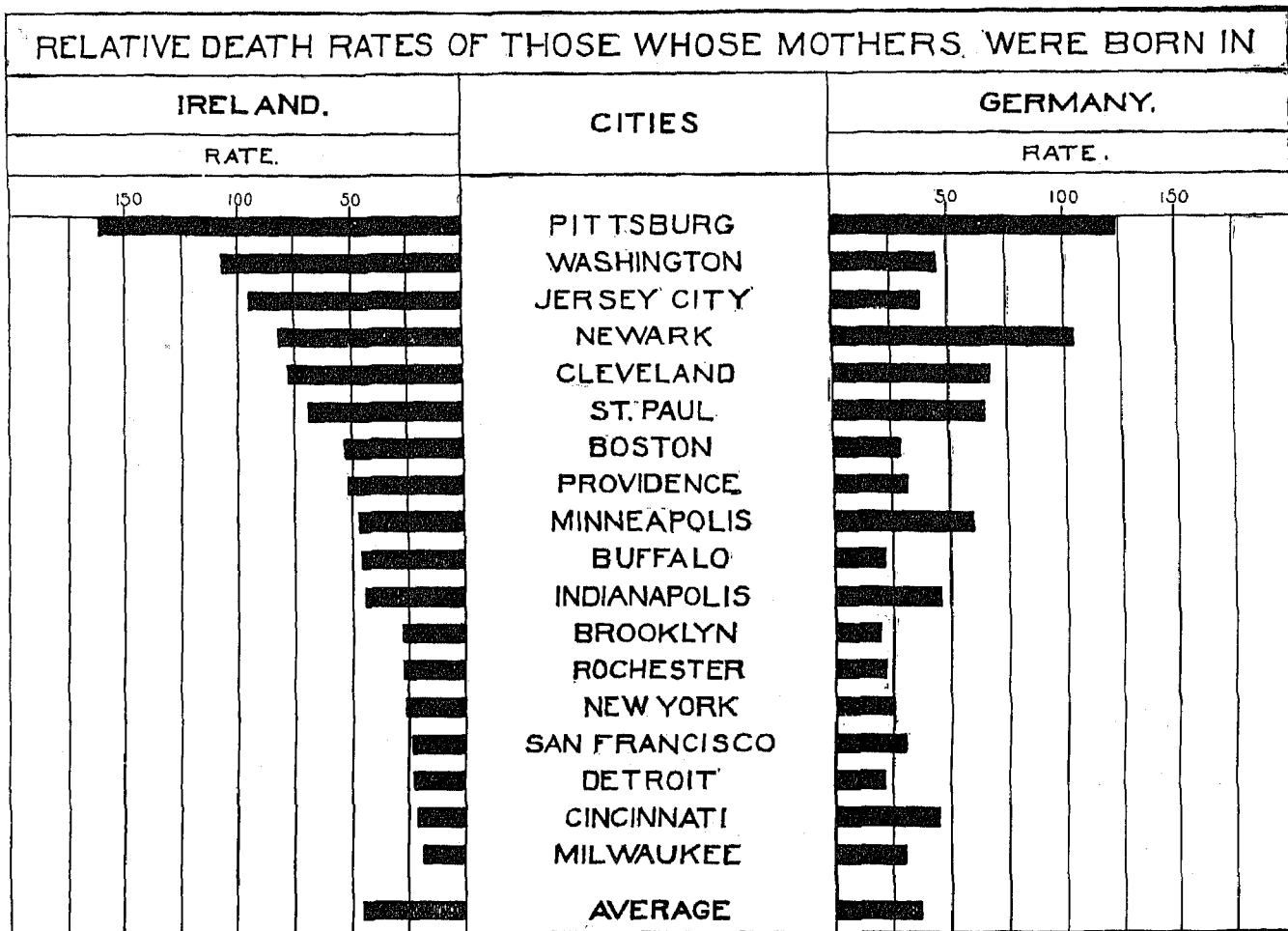
## VITAL AND SOCIAL STATISTICS.

The following diagram shows for 18 cities the relative death rates from typhoid fever during the census year among those whose mothers were born in the United States and those whose mothers were born in Ireland, the cities being arranged in the order of magnitude of the ratio of the former:



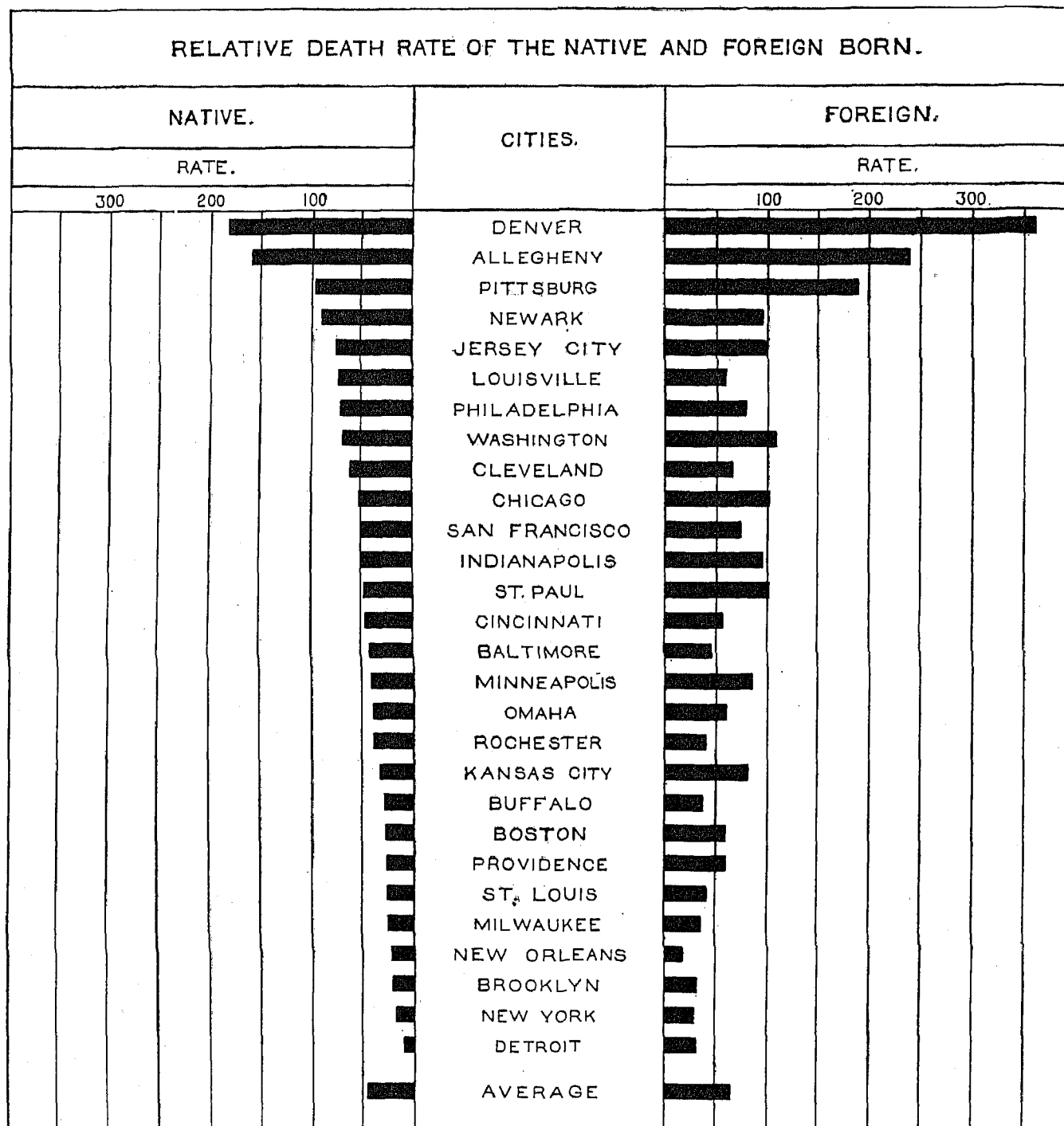


The following diagram shows for 18 cities the relative death rates from typhoid fever during the census year among those whose mothers were born in Ireland and those whose mothers were born in Germany, the cities being arranged in the order of magnitude of the ratio of the former:



## VITAL AND SOCIAL STATISTICS.

The following diagram shows for the 28 cities the relative death rates from typhoid fever during the census year among the native and among the foreign born, the cities being arranged in the order of magnitude of the ratio of the former:



The tables on pages 64 and 65 show the different proportion of deaths due to typhoid fever out of the total number of deaths in persons of certain occupations.

The relation of the death rate from typhoid fever to month or season is shown by the table on page 64.

## MALARIAL FEVER.

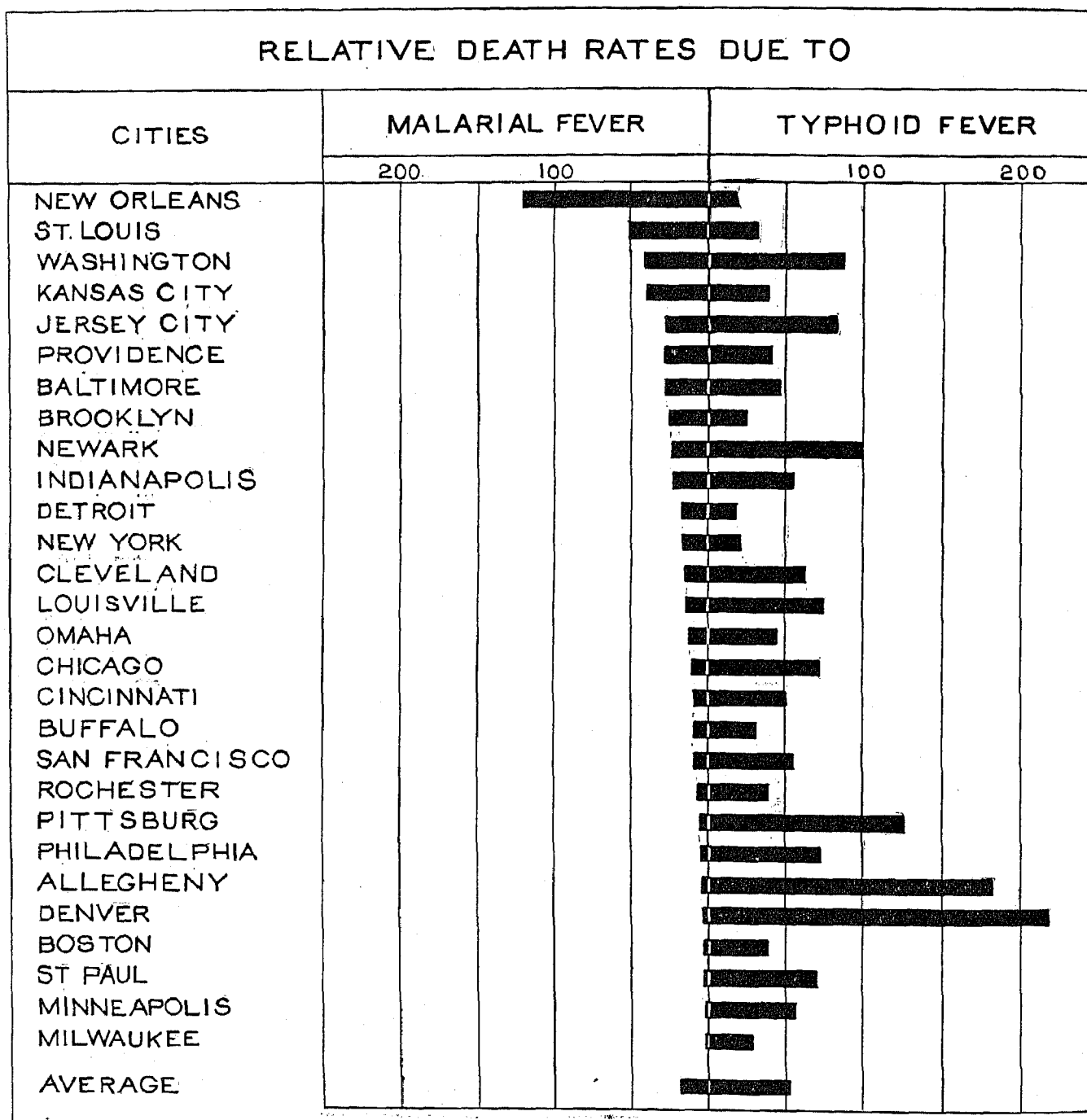
The total number of deaths in the 28 cities during the census year from malarial fever was 1,823, giving an average death rate of 18.80 per 100,000, ranging from 120.64 in New Orleans, 50.69 in St. Louis, and 42.54 in Washington to 0.98 in Milwaukee, 1.21 in Minneapolis, and 1.50 in St. Paul.

The following table shows for the 28 cities and for their aggregate the death rates from malarial fever during the census year, in the aggregate and for 3 age groups, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from this cause:

CITIES.	All ages.	Under 15 years.	15 to 45 years.	45 years and over.	CITIES.	All ages.	Under 15 years.	15 to 45 years.	45 years and over.
Total .....	18.80	20.10	14.58	30.42	Louisville .....	14.27	14.68	8.21	32.97
New Orleans.....	120.64	140.28	108.76	119.19	Omaha .....	12.10	11.67	14.17	.....
St. Louis .....	50.69	56.21	40.93	73.54	Chicago.....	10.09	10.98	7.23	19.80
Washington .....	42.54	46.08	36.73	52.75	Cincinnati.....	9.77	9.88	7.75	15.84
Kansas city.....	40.69	62.52	29.00	52.20	Buffalo.....	9.39	9.30	6.80	18.43
Jersey city.....	28.83	25.22	19.88	65.97	San Francisco .....	9.36	14.02	5.25	16.61
Providence .....	28.76	44.04	14.07	48.57	Rochester.....	8.96	4.92	10.63	13.00
Baltimore.....	28.08	24.00	18.88	61.01	Pittsburg.....	6.71	8.86	3.66	12.20
Brooklyn .....	25.67	23.40	20.86	44.06	Philadelphia.....	5.73	5.82	3.93	10.79
Newark .....	24.75	26.30	17.19	44.43	Allegheny .....	4.75	5.93	1.81	12.48
Indianapolis.....	23.71	16.82	20.88	16.35	Denver .....	3.75	3.96	4.49	.....
Detroit .....	17.00	11.72	19.06	21.65	Boston.....	2.68	1.77	2.40	4.68
New York .....	16.04	17.43	11.34	29.83	St. Paul.....	1.50	.....	1.32	.....
Cleveland.....	15.69	13.89	15.08	19.89	Minneapolis .....	1.21	2.15	1.03	.....
					Milwaukee .....	0.98	.....	1.01	3.40

It will be seen from this table that the heaviest death rate from malarial fever in the 28 cities during the census year occurred in New Orleans, in which city it was more than double the corresponding rate in any other city. No doubt some of the deaths reported as due to malarial fever in this and in other cities were really due to typhoid fever; nor can the death rate reported as due to malarial fever in any city be taken as an index of the prevalence of malarial diseases in that locality.

No definite relation appears between the magnitude of the death rates from malarial fever and from typhoid fever for the different cities, but the highest death rates from typhoid occurred in cities having low death rates from malarial fevers, as will be seen by the following diagram, in which the cities are arranged in the order of magnitude of the malarial fever death rates:



The death rates from malarial fever were greatest among those 45 years of age and over, and next to these among those under 15 years of age. The deaths reported as due to this cause in Denver, Boston, St. Paul, Minneapolis, and Milwaukee were probably not due to malarial fever contracted in those cities.

The following table shows for the 28 cities the death rates from malarial fever during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	18.80	16.84	16.50	15.16	13.89	17.53	57.45	(Of mothers.)		
Boston.....	2.68	2.50	3.18	3.08	2.71	1.28	11.04	3.30	1.87	.....
Brooklyn.....	25.67	25.77	23.19	19.77	25.63	31.07	18.27	23.01	30.16	18.40
Buffalo.....	9.39	9.43	7.83	3.52	10.13	12.33	.....	4.10	6.97	12.54
Cincinnati.....	9.77	9.12	8.88	10.18	4.49	9.82	25.68	9.74	11.81	0.29
Cleveland.....	15.69	15.10	14.25	14.59	14.04	16.51	65.00	13.70	21.77	17.40
Detroit.....	17.00	16.80	15.64	13.98	16.55	18.53	23.05	12.90	4.73	15.05
Indianapolis.....	23.71	23.89	26.83	22.31	36.24	6.92	21.85	11.98	11.08	15.03
Jersey city.....	28.83	28.61	22.31	31.28	16.66	41.37	44.70	27.56	44.67	13.31
Milwaukee.....	0.98	0.93	0.30	.....	1.03	1.26	.....	.....	8.90	0.33
Minneapolis.....	1.21	1.22	1.04	1.85	2.04	.....	.....	1.77	.....	.....
Newark.....	24.75	25.34	20.47	41.23	10.58	16.25	.....	35.46	22.83	10.84
New York.....	16.04	15.84	16.42	16.64	16.82	14.60	38.95	17.73	22.54	10.40
Pittsburg.....	6.71	6.87	3.17	4.33	2.27	12.30	25.14	9.50	8.06	6.41
Providence.....	28.76	28.38	21.62	19.34	35.43	44.70	24.69	15.34	44.10	.....
Rochester.....	8.96	9.09	10.69	12.52	0.32	5.03	.....	0.25	15.68	7.63
San Francisco.....	9.36	9.24	9.45	12.37	7.47	8.87	10.60	.....	5.51	1.98
St. Paul.....	1.50	1.52	.....	.....	.....	8.77	.....	.....	.....	.....
Washington.....	42.54	25.21	26.44	25.16	31.13	16.20	77.94	24.28	29.50	7.68
								(Of persons.)		
Allegheny.....	4.75	4.87	2.61	.....	.....	11.50	.....	2.61	.....	15.00
Baltimore.....	23.03	27.78	22.11	.....	.....	52.50	20.72	22.11	52.28	68.78
Chicago.....	10.09	10.14	10.86	.....	.....	9.12	6.73	10.86	17.14	9.81
Denver.....	3.75	3.90	5.12	.....	.....	.....	.....	5.12	.....	.....
Kansas city.....	40.69	31.98	32.59	.....	.....	29.08	115.15	32.59	21.62	16.37
Louisville.....	14.27	12.08	8.26	.....	.....	20.34	24.41	8.26	33.00	21.20
New Orleans.....	120.64	103.73	93.40	.....	.....	147.48	167.02	93.40	133.34	153.76
Omaha.....	12.10	11.05	9.91	.....	.....	14.32	42.04	9.91	24.60	.....
Philadelphia.....	5.73	5.66	6.09	.....	.....	4.47	7.43	6.09	3.61	8.00
St. Louis.....	50.69	43.03	42.25	.....	.....	63.60	92.37	42.25	74.17	64.55

It will be seen that the death rate of the colored from this cause was over three times as great as that of the whites, and that it was decidedly greater among those whose mothers were born in Ireland than among those whose mothers were born in Germany or in the United States.

#### DIPHTHERIA AND CROUP.

The total number of deaths in the 28 cities from diphtheria and croup during the census year was 11,303, giving an average death rate of 116.55 per 100,000, ranging from 191.41 in Jersey city, 189.42 in Pittsburg, and 178.05 in Denver to 45.56 in Rochester, 49.65 in Louisville, and 54.25 in Kansas city.

In the 28 largest English cities the average death rate from diphtheria for the year 1890 was 24 per 100,000 of population, ranging from 39 in Manchester, 32 in London and in Portsmouth, and 30 in Newcastle to 3 in Bradford, 6 in Leeds, and 9 in Hull. For the 10 years 1880 to 1889, inclusive, the average death rate in these cities from this cause was 18 per 100,000 of population. For the year 1890 the corresponding rates for diphtheria for some other European cities were as follows: Buda-Pesth, 154.4; Copenhagen, 130.6; Berlin, 97.7; Moscow, 91.2; Stockholm, 81.6; Paris, 75.1; Hamburg, 65.4; Rome, 57.0; St. Petersburg, 53.3; Amsterdam, 48.2; Vienna, 45.1; Edinburgh, 32.4; Glasgow, 27.5; Dublin, 6.7; Brussels, 4.2. For the 10 years 1881 to 1890, inclusive, the corresponding rates for diphtheria and croup were: Dresden, 15.3; Königsberg, 15.2; Berlin, 130.0; Nuremberg, 131.0; Leipsic, 115.0; Breslau, 108.0; Munich, 97.0; Hamburg, 90.0; Strasburg, 76.0; Cologne, 46.0; and for the 11 years 1881 to 1891, inclusive, Paris, 87.0; London, 41.0.

In the 28 largest German cities the average rate for the year 1890 was 92, varying from 246 in Stettin, 199 in Braunschweig, 177 in Stuttgart, and 160 in Frankfort on the Main to 19 in Aachen, 31 in Strasburg, 33 in Dusseldorf, and 59 in Leipsic.

The death rates from these diseases, which, for statistical purposes, must be considered as the same, were, therefore, greater in the majority of the large cities of the United States than in the majority of the large cities of Europe in 1890.

## VITAL AND SOCIAL STATISTICS.

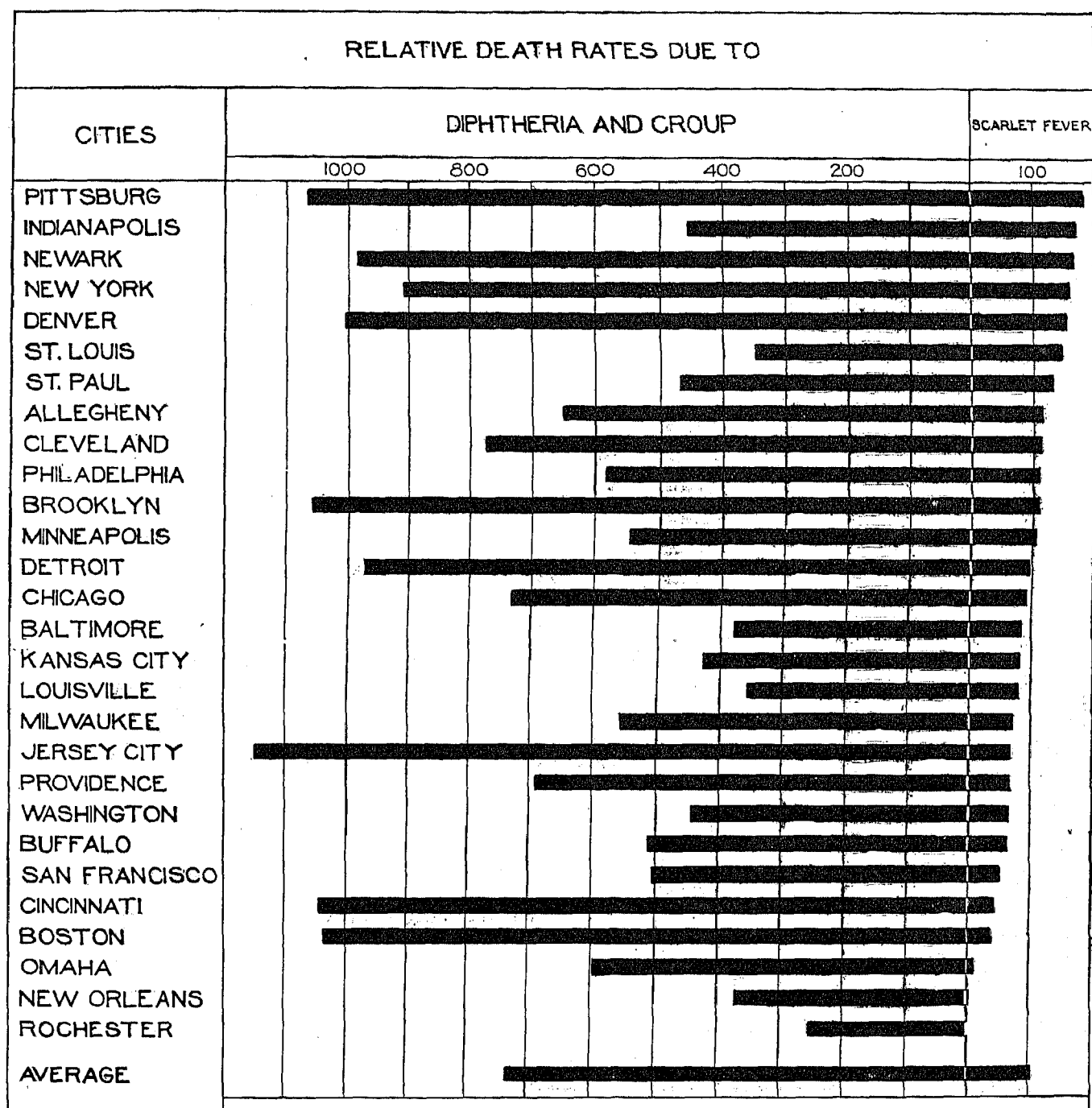
The following table shows for the 28 cities and for their aggregate the number of deaths from diphtheria and croup during the census year, in the aggregate and for 5 age groups, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from these causes:

CITIES.	All ages.	Under 1 year.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 years and over.
Total .....	116.55	356.95	731.45	175.01	5.09	3.19
Jersey city .....	181.41	478.23	1,150.73	269.41	9.38	7.76
Pittsburg .....	189.42	276.15	1,068.79	274.61	3.96	6.10
Denver .....	178.05	528.34	1,004.39	578.84	4.49	-----
Detroit .....	174.86	349.07	970.27	244.56	4.77	-----
Newark .....	172.69	387.32	984.05	295.22	6.45	3.17
Brooklyn .....	169.41	292.23	1,060.44	230.81	5.21	3.66
Cincinnati .....	164.70	298.02	1,043.53	250.99	5.81	5.94
Cleveland .....	147.81	405.11	775.84	245.76	5.21	2.49
Boston .....	142.26	408.85	1,037.51	271.90	8.40	8.51
Chicago .....	140.47	382.01	731.62	218.21	6.56	4.10
Milwaukee .....	132.05	271.46	558.34	220.54	8.05	3.40
New York .....	123.41	534.04	909.61	120.44	4.18	4.56
Allegheny .....	121.57	470.04	652.77	197.70	7.22	18.73
Minneapolis .....	108.66	332.78	546.48	198.46	18.54	5.00
St. Paul .....	104.39	207.31	467.59	217.60	9.22	-----
Omaha .....	102.53	705.97	596.45	157.98	3.54	8.14
Providence .....	93.84	242.03	692.38	176.58	7.03	-----
Buffalo .....	86.05	479.61	513.55	94.15	0.78	-----
Washington .....	83.34	222.37	445.10	211.84	5.84	-----
Philadelphia .....	80.61	259.67	584.97	114.30	2.68	2.57
Indianapolis .....	71.18	261.10	454.93	143.08	1.76	-----
New Orleans .....	64.45	233.83	370.26	99.06	6.74	-----
St. Louis .....	61.76	170.23	347.26	105.51	2.95	-----
San Francisco .....	58.86	443.22	504.87	103.43	4.66	3.69
Baltimore .....	55.93	208.72	376.97	66.68	4.05	2.54
Kansas city .....	54.25	387.05	426.51	79.91	-----	-----
Louisville .....	49.65	204.80	355.64	77.61	-----	-----
Rochester .....	45.56	206.90	254.90	75.28	4.30	8.67

It will be seen from this table that the death rate was much greater among the children under 5 years of age than it was in any other age group, and that for those 15 years of age and over it was comparatively small. For those between 15 and 45 years of age it was 18.54 per 100,000 in Minneapolis, or more than three times the average rate, namely, 5.09, and for those 45 years of age and over it was 18.73 in Allegheny, or more than five times the average rate for this age period, namely, 3.19.

The death rates from these causes in children under 5 years of age were remarkably great in Jersey city (1,150.73), Pittsburg (1,068.79), Brooklyn (1,060.44), Cincinnati (1,043.53), Boston (1,037.51), and Denver (1,004.39), the average rate for this age group being 731.45 per 100,000 of population. For those between 5 and 15 years of age the death rates from these causes were greatest in Denver (578.84), Newark (295.22), Pittsburg (274.61), Boston (271.90), Jersey city (269.41), and Cincinnati (250.99), the average rate for this age group being 175.01 per 100,000 of population.

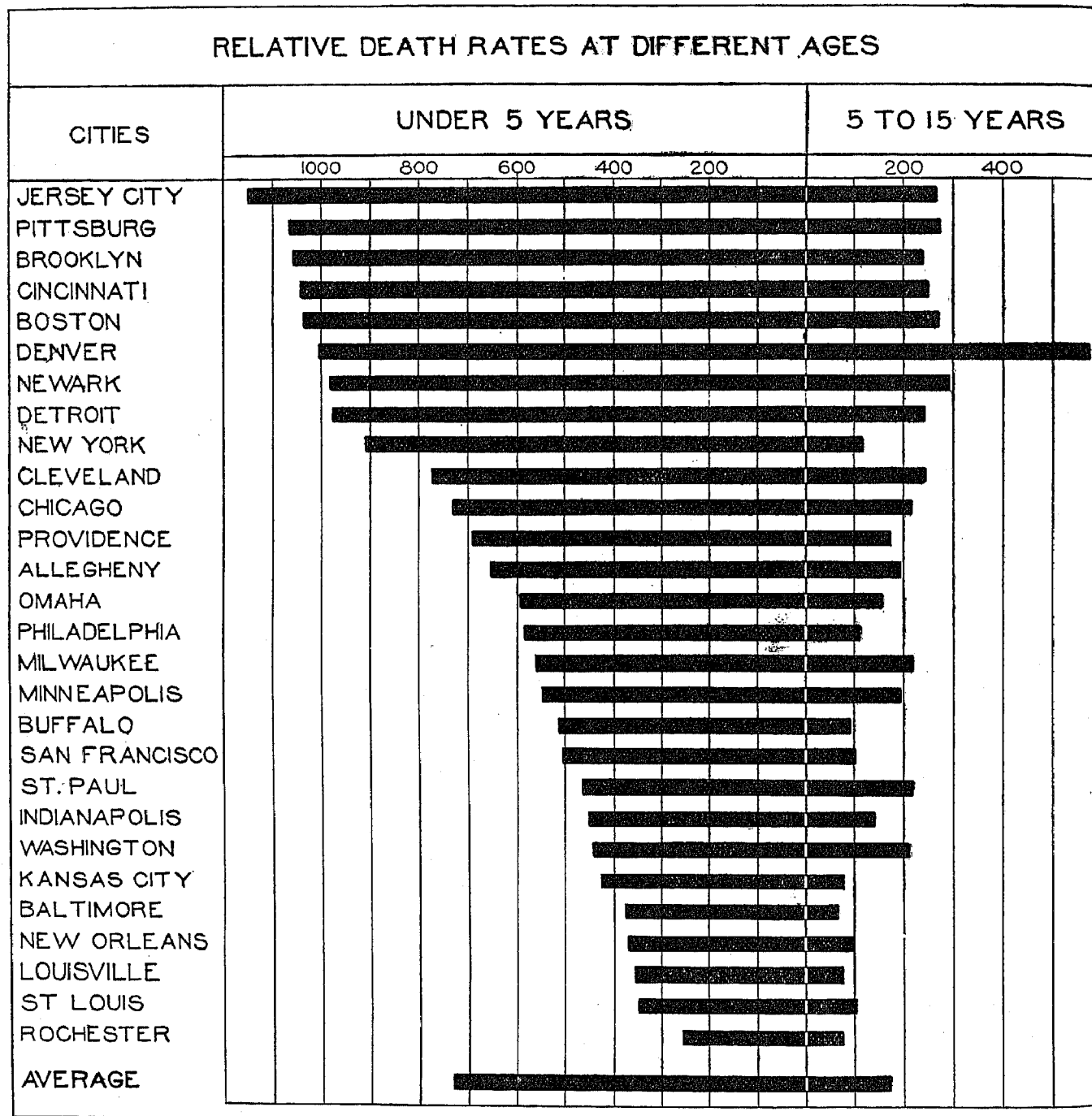
The following diagram shows for the 28 cities the relative death rates from scarlet fever and from diphtheria and croup per 100,000 children under 5 years of age during the census year, the cities being arranged in the order of magnitude of the scarlet fever death rates:



This diagram shows the much greater death rate from diphtheria and croup than from scarlet fever in each city, and also indicates that there is no definite relation between the relative prevalence of these diseases in different cities, although in more than half the cases a high death rate from scarlet fever is accompanied by a high death rate from diphtheria and croup, and vice versa, which is probably due, not to any connection between the diseases, but to conditions of race proportion, density of population, and climate, which favor or check the spread of each.



The following diagram shows for the 28 cities the relative death rates from diphtheria and croup for those under 5 and between 5 and 15 years of age, the cities being arranged in the order of magnitude of the death rates for those under 5 years of age:



This diagram shows that there is a general correspondence between the death rates of the 2 age groups, but that there are numerous exceptions to this rule.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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The following table shows for the 28 cities the death rates from diphtheria and croup during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

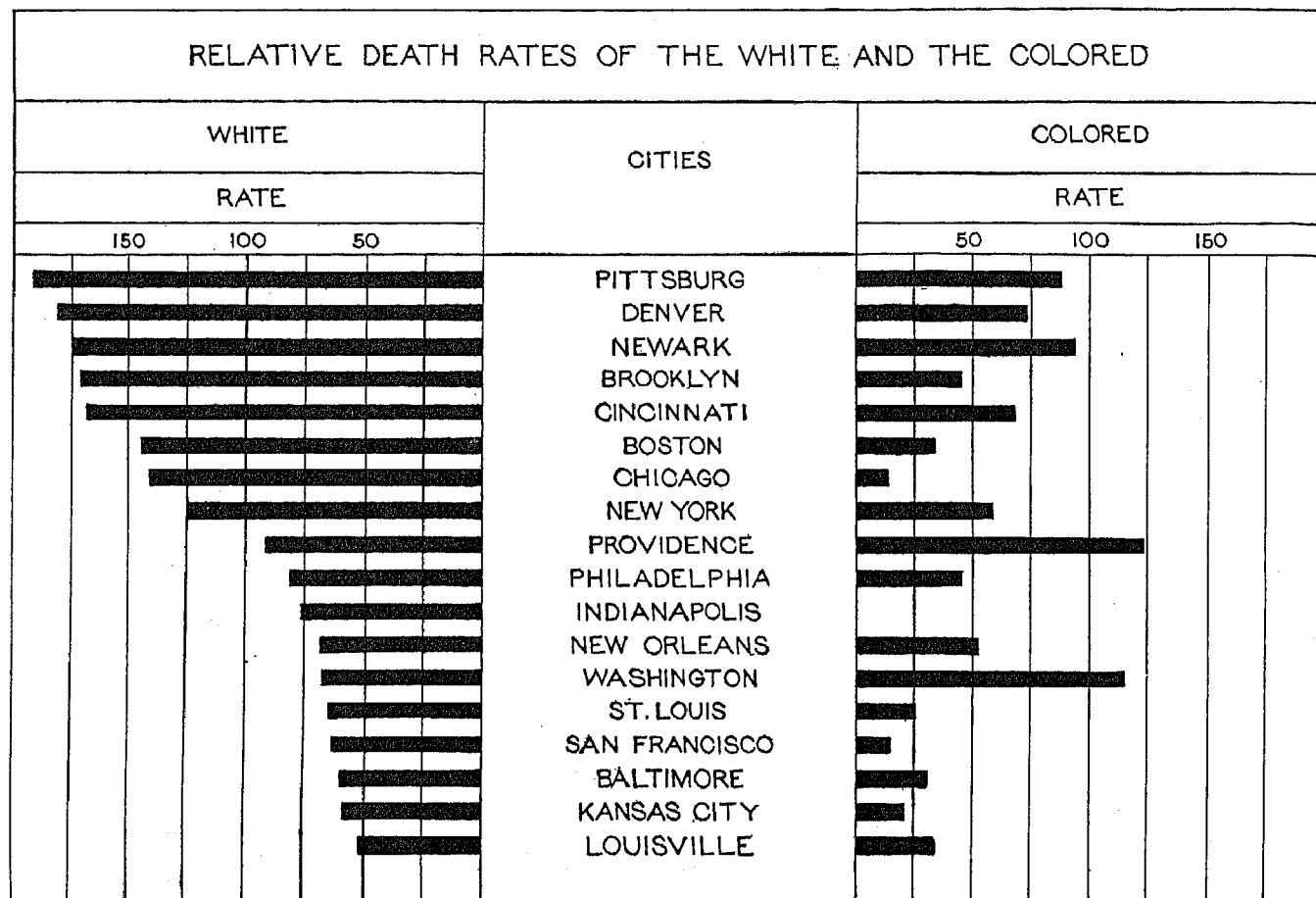
CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	110.55	119.76	169.94	155.74	226.05	17.92	53.18	166.72	(Of mothers.) 89.24	117.05
Boston .....	142.26	144.36	208.68	125.98	284.81	28.08	34.92	150.51	129.41	142.78
Brooklyn .....	109.41	171.11	243.51	225.09	256.65	22.63	45.68	239.74	134.05	134.41
Buffalo .....	80.05	86.45	121.60	89.88	138.18	21.30	-----	94.23	31.87	70.03
Cincinnati .....	164.70	168.64	220.18	262.63	194.65	14.02	68.47	267.74	94.48	117.21
Cleveland .....	147.31	149.04	230.50	149.10	280.78	13.41	-----	151.35	46.66	109.51
Detroit .....	174.86	177.35	279.07	130.47	360.28	24.71	23.95	120.31	75.69	162.44
Indianapolis .....	71.13	77.90	90.43	68.42	140.34	6.92	-----	42.79	-----	104.42
Jersey city .....	191.41	192.83	277.92	243.03	299.88	20.68	89.41	275.69	100.21	173.26
Milwaukee .....	132.05	132.85	204.08	161.54	216.00	20.12	-----	146.12	17.99	138.00
Minneapolis .....	108.66	109.56	159.43	70.46	257.46	24.79	-----	88.86	103.07	90.18
Newark .....	172.69	174.59	248.03	216.92	274.17	12.64	93.65	234.25	127.12	158.97
New York .....	123.41	124.53	203.60	136.70	211.46	18.08	58.42	205.41	81.88	92.02
Pittsburg .....	189.42	192.92	273.01	235.41	302.49	20.50	87.97	225.88	78.58	200.16
Providence .....	93.84	92.90	120.73	93.05	174.61	12.43	123.43	109.28	76.70	96.12
Rochester .....	45.56	45.70	60.91	52.59	67.10	10.07	-----	48.78	5.23	35.61
San Francisco .....	58.86	63.54	94.54	20.92	137.25	11.83	14.13	6.64	0.89	-----
St. Paul .....	104.39	102.56	157.86	77.39	210.34	20.72	262.47	66.86	55.87	125.91
Washington .....	83.34	67.88	77.10	78.28	72.74	-----	114.93	80.05	41.20	46.06
								(Of persons.)		
Allegheny .....	121.67	121.64	151.31	-----	-----	34.49	118.67	151.31	-----	45.17
Baltimore .....	55.93	60.19	72.35	-----	-----	7.29	32.69	72.35	-----	4.91
Chicago .....	140.47	142.21	225.07	-----	-----	25.13	13.47	225.07	4.28	34.15
Denver .....	178.05	182.19	225.06	-----	-----	45.01	73.69	225.06	-----	55.83
Kansas city .....	54.25	58.07	68.24	-----	-----	9.69	21.59	68.24	-----	16.37
Louisville .....	49.65	52.85	64.22	-----	-----	-----	34.88	64.22	-----	-----
New Orleans .....	64.45	68.78	85.03	-----	-----	-----	52.58	85.03	-----	-----
Omaha .....	102.58	104.57	132.84	-----	-----	22.91	42.94	132.84	24.59	36.24
Philadelphia .....	80.61	82.06	109.98	-----	-----	5.22	44.58	109.98	2.70	5.34
St. Louis .....	61.76	64.04	86.75	-----	-----	2.62	25.80	86.75	-----	3.03

It will be seen from this table that the death rate from diphtheria and croup was much greater among the whites (119.76) than among the colored (53.18), and among the native whites (169.94) than among the foreign born (17.92), this last being due to a considerable extent to the larger number of children of ages specially susceptible to these diseases among the natives than among the foreign born.

It was greater among the native whites having one or both parents foreign born (226.05) than among those of whom both parents were native (155.74), and it was greater among those whose mothers were born in the United States (166.72) than among those whose mothers were born in Germany (117.05), or those whose mothers were born in Ireland (89.24).

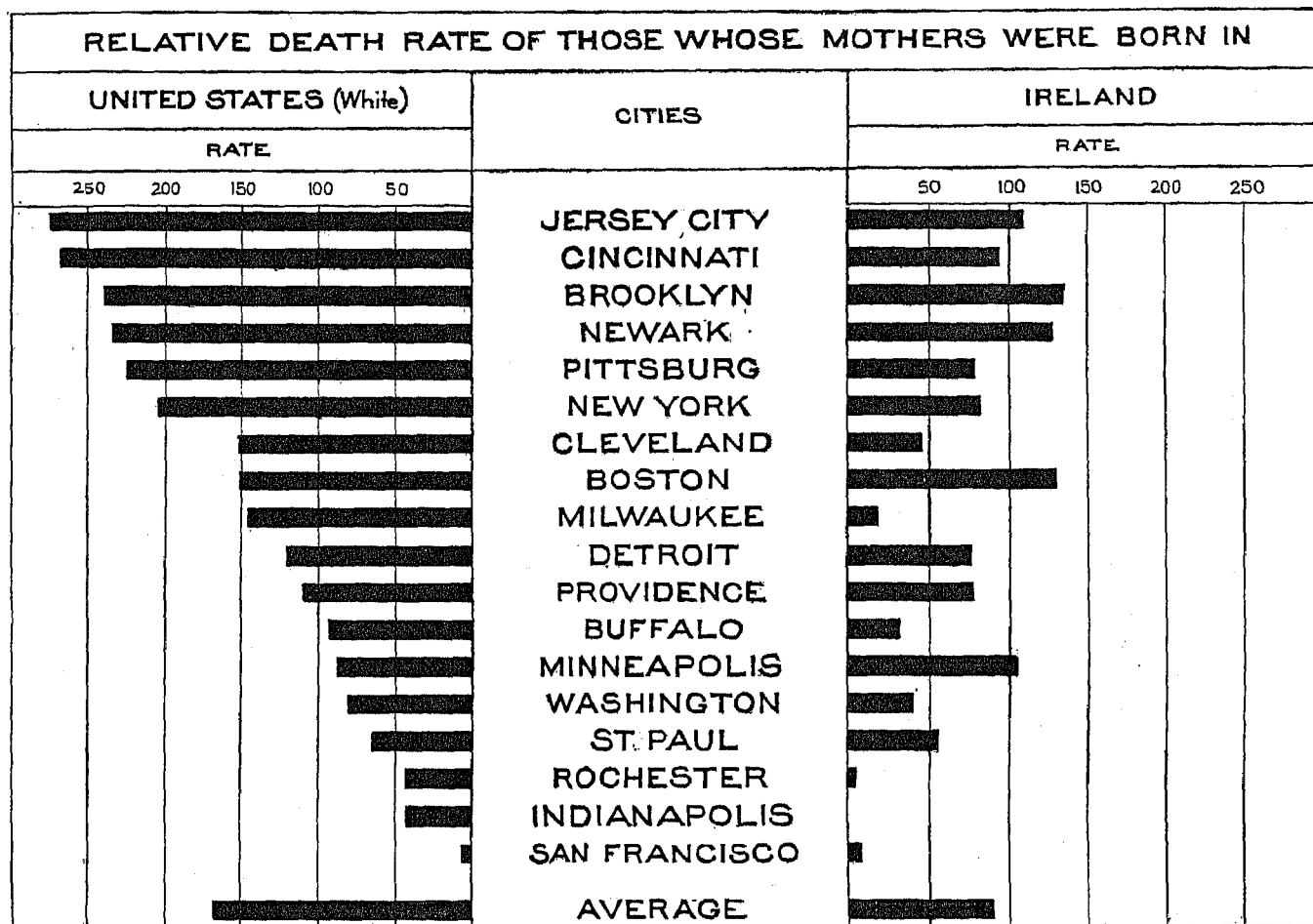
## VITAL AND SOCIAL STATISTICS.

The following diagram shows for 18 cities the relative death rates from diphtheria and croup for the white and for the colored, the cities being arranged in the order of magnitude of the ratio of the former:

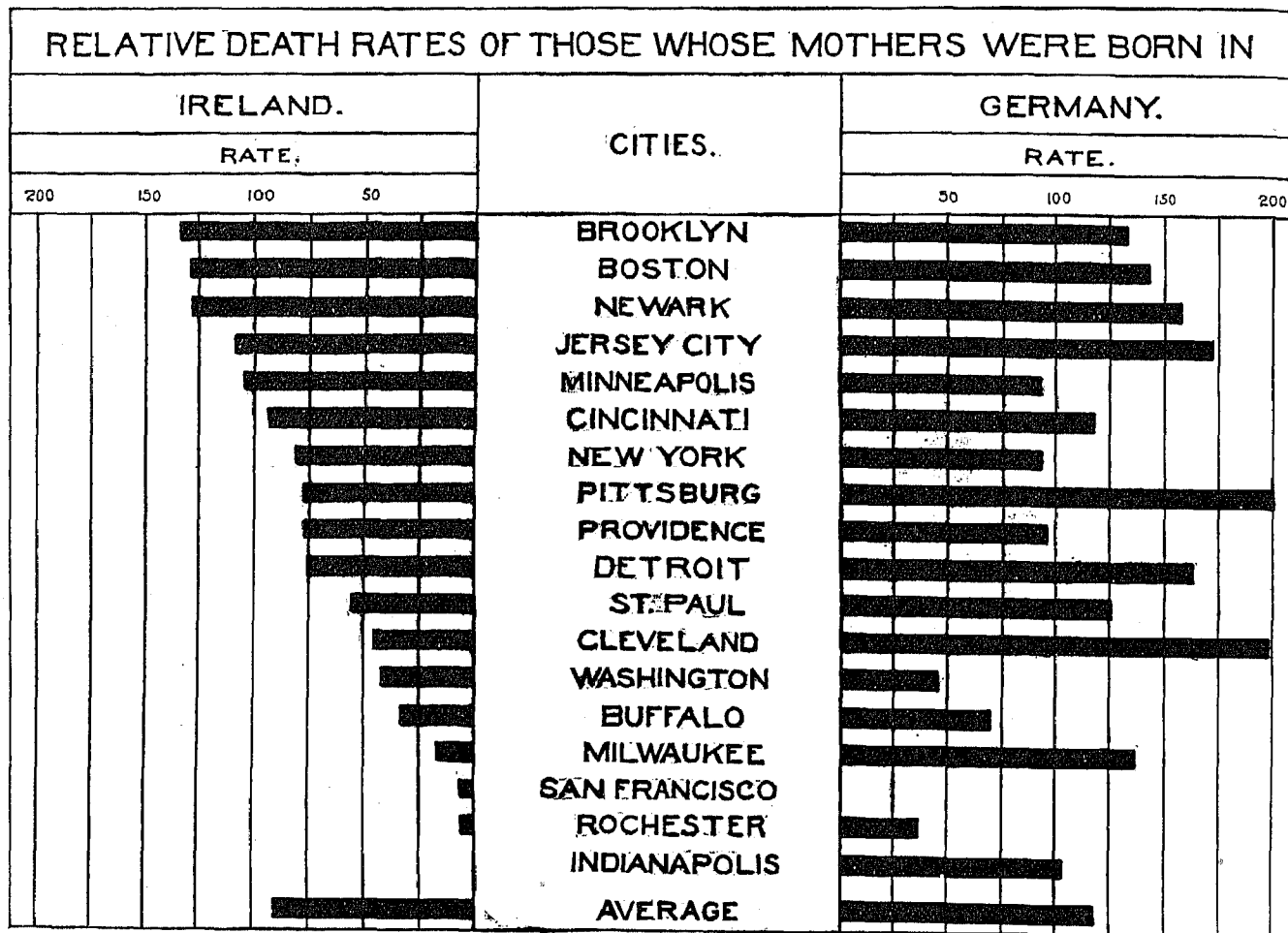


This diagram and the preceding table show that there is little relation between the relative death rates of white and colored from diphtheria and croup in different cities. In St. Paul the death rate was much greater among the colored than among the whites, and it was also excessive among the colored in Washington, in Providence, and in Allegheny.

The following diagram shows for 18 cities the relative death rates from diphtheria and croup among those whose mothers were born in the United States and of those whose mothers were born in Ireland, the cities being arranged in the order of magnitude of the ratio of the former:



The following diagram shows for 18 cities the relative death rates from diphtheria and croup per 100,000 of persons whose mothers were born in Ireland and in Germany, the cities being arranged in the order of magnitude of the ratio of the former:



The relations between the death rate from diphtheria and month or season are indicated by the table on page 64.

#### DIARRHEAL DISEASES.

The total number of deaths in the 28 cities during the census year from diarrheal diseases was 20,875, giving an average death rate of 215.25 per 100,000, ranging from 307.06 in Baltimore, 301.26 in New York, and 294.58 in New Orleans to 87.63 in San Francisco, 89.00 in Omaha, and 107.37 in Louisville.

In the 28 largest English cities the death rate from diarrhea for the year 1890 was 77 per 100,000 of population, ranging from 254 in Preston, 137 in Leicester, and 119 in Manchester to 21 in Halifax and in Blackburn, 41 in Bristol, and 61 in London.

In the 28 largest German cities the death rate from acute intestinal diseases per 100,000 of population during the year 1890 was 233, and from cholera morbus 156.

The following table shows for the 28 cities and for their aggregate the death rates from diarrheal diseases during the census year, in the aggregate and for 2 age groups, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from these causes:

CITIES.	All ages.	Under 5 years.	45 years and over.	CITIES.	All ages.	Under 5 years.	45 years and over.
Total .....	215.25	1,637.79	130.92	Jersey city .....	198.77	1,507.29	89.25
Baltimore .....	307.06	2,304.00	170.07	Pittsburg .....	192.78	1,305.53	146.38
New York .....	301.26	2,359.64	173.19	Rochester .....	182.23	1,426.04	95.36
New Orleans .....	294.58	1,670.46	371.07	Milwaukee .....	179.98	1,187.81	68.09
Washington .....	256.95	2,259.72	180.24	Allegheny .....	170.96	1,272.07	99.87
Chicago .....	254.31	1,778.62	93.53	Providence .....	166.48	1,446.10	145.70
Newark .....	252.98	1,923.36	133.28	Minneapolis .....	156.01	1,103.26	50.98
Brooklyn .....	234.30	1,772.91	131.05	Philadelphia .....	153.01	1,108.80	108.38
Buffalo .....	233.51	1,537.62	157.98	Kansas city .....	143.92	1,168.94	110.38
Detroit .....	230.24	1,680.28	71.15	Cincinnati .....	140.78	982.90	146.54
St. Paul .....	227.55	1,636.57	87.59	Indianapolis .....	138.47	1,110.88	125.37
Cleveland .....	204.70	1,474.42	89.52	St. Louis .....	118.42	754.04	107.48
Denver .....	203.35	2,040.18	46.02	Louisville .....	107.37	750.55	135.55
Boston .....	199.12	1,875.50	119.44	Omaha .....	89.00	694.83	24.41
				San Francisco .....	87.63	896.59	59.04

It will be seen from this table that the death rate from these diseases was enormous in children under 5 years of age, hence the proportion of children of this age group in the population of a city had much to do with determining the magnitude of its death rate from these causes.

The following table shows for the 28 cities the death rates from diarrheal diseases during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	215.25	213.73	283.85	227.40	365.74	71.43	245.18	221.19	175.01	197.70
Boston .....	190.12	193.01	269.77	185.55	393.30	70.85	209.55	167.08	192.24	185.63
Brooklyn .....	234.30	233.59	311.97	260.57	342.20	72.87	202.34	282.70	173.74	203.52
Buffalo .....	233.51	234.10	312.77	273.16	333.48	88.57	85.54	245.81	143.44	192.31
Cincinnati .....	140.78	140.94	160.81	161.68	142.24	81.34	136.94	163.43	76.76	108.56
Cleveland .....	204.70	206.33	301.13	147.56	396.10	48.49	65.90	144.47	107.98	204.50
Detroit .....	230.24	232.68	352.34	156.10	459.57	53.12	86.86	133.27	75.69	223.36
Indianapolis .....	138.47	138.14	151.53	152.03	148.90	62.20	142.01	82.16	110.79	93.98
Jersey city .....	198.77	194.07	261.10	216.56	289.28	58.20	536.43	224.41	162.86	209.74
Milwaukee .....	179.98	179.41	264.94	198.26	282.85	46.52	423.27	168.79	44.97	178.79
Minneapolis .....	156.01	156.07	223.45	111.26	357.58	33.05	147.71	126.48	47.85	180.35
Newark .....	252.98	250.62	325.70	259.95	381.12	84.85	351.21	261.99	162.08	310.70
New York .....	301.26	301.62	464.67	300.46	513.09	83.36	280.44	368.55	237.89	233.49
Pittsburg .....	192.78	194.66	249.51	171.87	310.48	76.55	138.24	151.84	175.29	176.72
Providence .....	166.48	163.16	200.28	138.54	275.88	82.05	271.54	155.30	141.77	192.25
Rochester .....	182.23	183.02	236.15	185.32	273.97	57.89	-----	116.73	83.60	114.45
San Francisco .....	87.63	90.88	125.85	138.39	118.58	32.53	56.54	17.27	20.66	25.80
St. Paul .....	227.55	227.91	365.36	245.07	443.83	24.40	196.85	217.23	93.12	309.93
Washington .....	256.95	206.21	216.63	228.31	173.20	129.61	300.65	203.26	141.58	116.15
Allegheny .....	170.96	173.22	206.10	-----	-----	76.64	79.11	206.10	108.36	75.28
Baltimore .....	307.06	289.53	322.88	-----	-----	144.37	402.70	322.88	179.25	157.21
Chicago .....	254.31	256.22	400.24	-----	-----	52.71	114.40	400.24	65.69	62.10
Denver .....	203.35	210.44	262.14	-----	-----	45.01	24.56	262.14	23.72	37.22
Kansas city .....	143.92	137.18	148.70	-----	-----	82.38	201.51	148.70	43.23	130.95
Louisville .....	107.37	117.02	121.11	-----	-----	98.08	62.78	121.11	114.00	92.24
New Orleans .....	294.58	292.60	282.28	-----	-----	335.25	300.02	282.28	492.24	282.24
Omaha .....	89.00	90.58	111.03	-----	-----	31.50	42.94	111.03	73.76	12.08
Philadelphia .....	153.01	151.40	182.57	-----	-----	65.61	193.19	182.57	86.54	64.02
St. Louis .....	118.42	117.73	134.48	-----	-----	72.42	129.31	134.48	127.73	50.00

It will be seen from this table that the death rate from these causes was greater among the colored than among the whites, and that it was greater among the native whites having one or both parents foreign born than among those having both parents native. The fact that the death rate was greater among the native whites

and among those whose mothers were born in the United States than among the foreign born and among those whose mothers were born in Germany or in Ireland is due to the fact that the proportion of infants who are especially liable to these diseases is much greater among the native whites and among those whose mothers were born in the United States than in any other class.

#### CONSUMPTION.

The total number of deaths from consumption in the 28 cities during the census year was 26,069, giving an average death rate of 268.81 per 100,000 of population, ranging from 387.45 in New York, 378.26 in San Francisco, and 375.72 in Boston to 67.64 in Omaha, 125.42 in St. Paul, and 147.22 in Allegheny.

For the population 15 years of age and over in these cities the average number of deaths from consumption per 100,000 of population during the census year was 359.13, and for the registration states exclusive of cities, including Connecticut, Delaware, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont, during the same period it was 234.59. This disease, therefore, caused a heavier death rate in the large cities than in the rural districts. Taking the individual cities in the order of magnitude of the death rate from consumption in the population 15 years of age and over, we find that the death rates for these cities for this age group per 100,000 of population during the census year were as follows: New York, 508.64; San Francisco, 484.58; New Orleans, 480.15; Boston, 465.74; Newark, 457.46; Washington, 431.38; Brooklyn, 393.19; Baltimore, 388.57; Providence, 384.25; Jersey city, 378.35; Cincinnati, 371.21; Philadelphia, 371.16; Louisville, 361.49; Indianapolis, 356.23; Denver, 306.63; Rochester, 284.39; Milwaukee, 267.13; Buffalo, 260.17; St. Louis, 258.67; Chicago, 240.37; Detroit, 223.71; Cleveland, 220.01; Kansas city, 219.63; Pittsburg, 212.43; Allegheny, 193.31; Minneapolis, 190.45; St. Paul, 169.24; Omaha, 89.72. The greatest death rate from this cause among whites was 782.23, in ward 1 in New York.

In the 28 largest cities of the German empire the number of deaths from consumption per 100,000 of the aggregate population during the year 1890 was 299, ranging from 453 in Nuremberg, 367 in Dortmund, 357 in Frankfort on the Main, 388 in Crefeld, and 353 in Elberfeld to 236 in Königsberg, 249 in Strasburg, 239 in Halle, and 247 in Chemnitz.

The average annual number of deaths from consumption per 100,000 of inhabitants for the 10 years 1881 to 1890 was, for Paris, 463; Nuremberg, 456; Dortmund, 417; Barmen, 381; Aachen, 377; Frankfort on the Main, 373; Crefeld, 373; Bremen, 392, and London, 206. The death rates from consumption in most of the large cities diminished during the 10 years 1881 to 1890. The differences in the mortality from consumption in the large cities of the United States depend largely upon differences in the proportion of different races in the several cities, and also, to some extent, upon the age distribution and density of population, on the depth of the level of subsoil water, and on the dryness and uniformity of temperature of the climate. As a rule, the death rate from this cause in large cities is greater than it is in the small towns and rural districts.

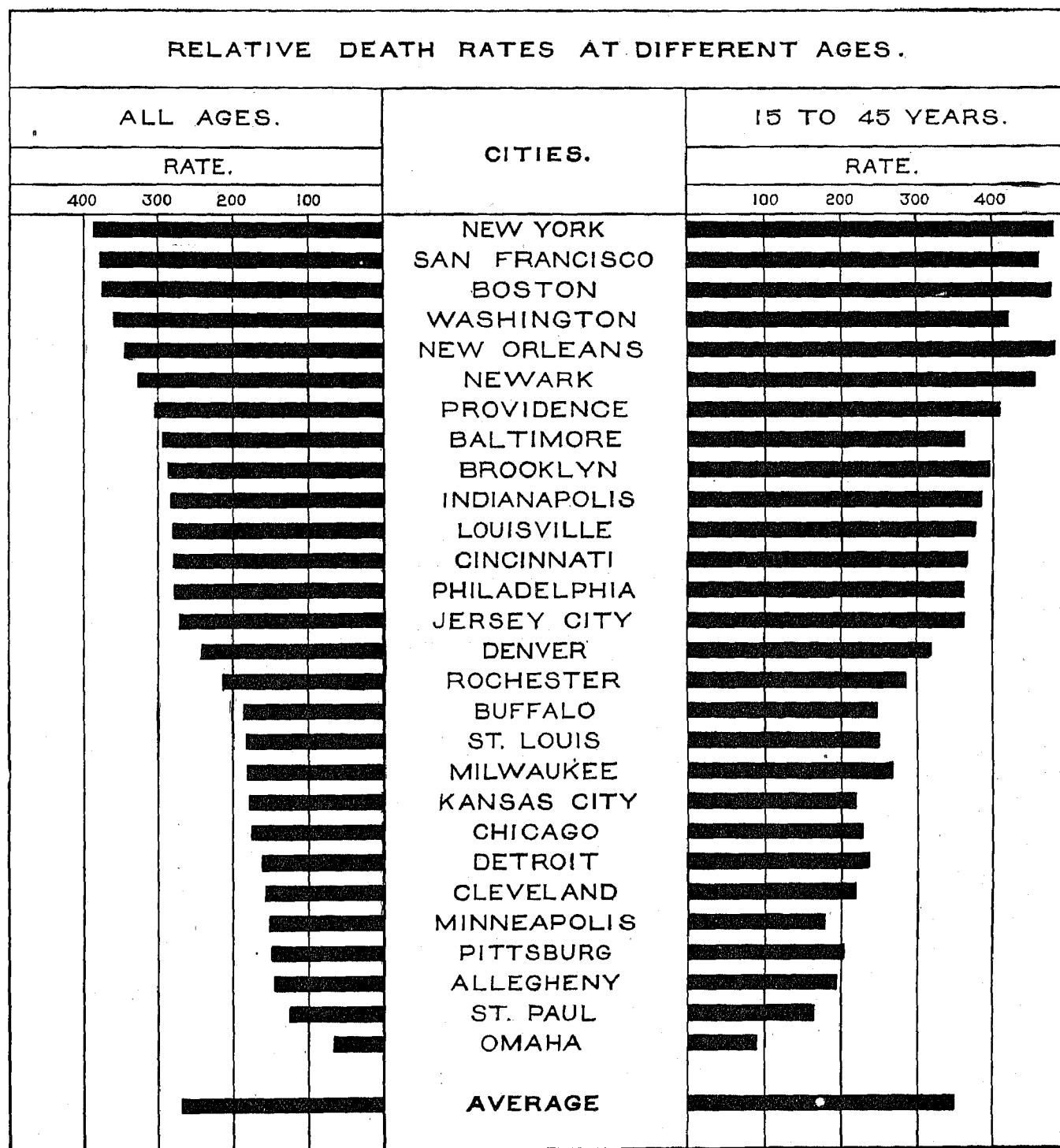
The following table shows for the 28 cities and for their aggregate the number of deaths from consumption during the census year, in the aggregate and for 3 age groups, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from this cause:

CITIES.	All ages.	Under 15 years.	15 to 45 years.	45 years and over.	CITIES.	All ages.	Under 15 years.	15 to 45 years.	45 years and over.
Total.....	268.81	58.94	348.12	385.68	Jersey city.....	271.77	42.68	361.39	434.63
New York.....	387.45	87.59	480.06	607.83	Denver (a).....	240.83	23.74	318.55	245.46
San Francisco.....	378.26	47.67	462.81	553.51	Rochester.....	213.60	54.07	286.69	277.42
Boston.....	375.72	108.75	476.44	434.43	Buffalo.....	186.18	41.85	246.30	308.06
Washington.....	358.95	175.09	418.24	465.98	St. Louis.....	184.61	26.70	249.77	288.49
New Orleans.....	343.75	59.94	482.26	474.52	Milwaukee.....	183.89	42.51	264.60	275.77
Newark.....	326.68	42.07	457.63	456.95	Kansas city.....	179.33	68.21	218.13	226.57
Providence.....	303.45	73.39	410.76	313.82	Chicago.....	175.93	43.07	227.27	293.55
Baltimore.....	293.02	77.25	361.01	466.47	Detroit.....	162.23	39.57	235.44	185.61
Brooklyn.....	288.34	52.05	396.05	384.38	Cleveland.....	158.79	35.88	215.15	236.24
Indianapolis.....	283.58	94.21	386.73	261.64	Minneapolis.....	152.97	60.08	176.14	259.92
Louisville.....	281.14	79.70	375.18	318.73	Pittsburg.....	149.19	22.79	201.08	256.16
Cincinnati.....	280.22	76.84	365.60	388.13	Allegheny.....	147.22	47.48	193.26	193.50
Philadelphia.....	279.57	43.11	366.44	384.74	St. Paul.....	125.42	29.26	164.57	101.05
					Omaha.....	67.64	11.67	87.39	105.78

a The deaths upon which the death rates from consumption for Denver are computed do not include 133 deaths of nonresidents dying of this disease in that city during the census year.



The following diagram shows for the 28 cities the differences in the death rates from consumption in the aggregate and for those from 15 to 45 years of age, the cities being arranged in the order of magnitude of the aggregate death rates from this cause:



It will be seen from this diagram that the death rate from consumption was more than twice as great during the census year in New York, San Francisco, Boston, Washington, and New Orleans as it was in Omaha, St. Paul, Allegheny, Pittsburg, and Minneapolis; that as a rule, it was highest in the seaboard cities and lowest in the western cities, and that it was above the average in the southern cities and below the average in the cities on the Great Lakes. It will also be seen that the death rate at all ages corresponded pretty closely to the death rate of those between 15 and 45 years of age. The death rate among the population 45 years of age and over from consumption was, however, greater than it was among those under 45 years.

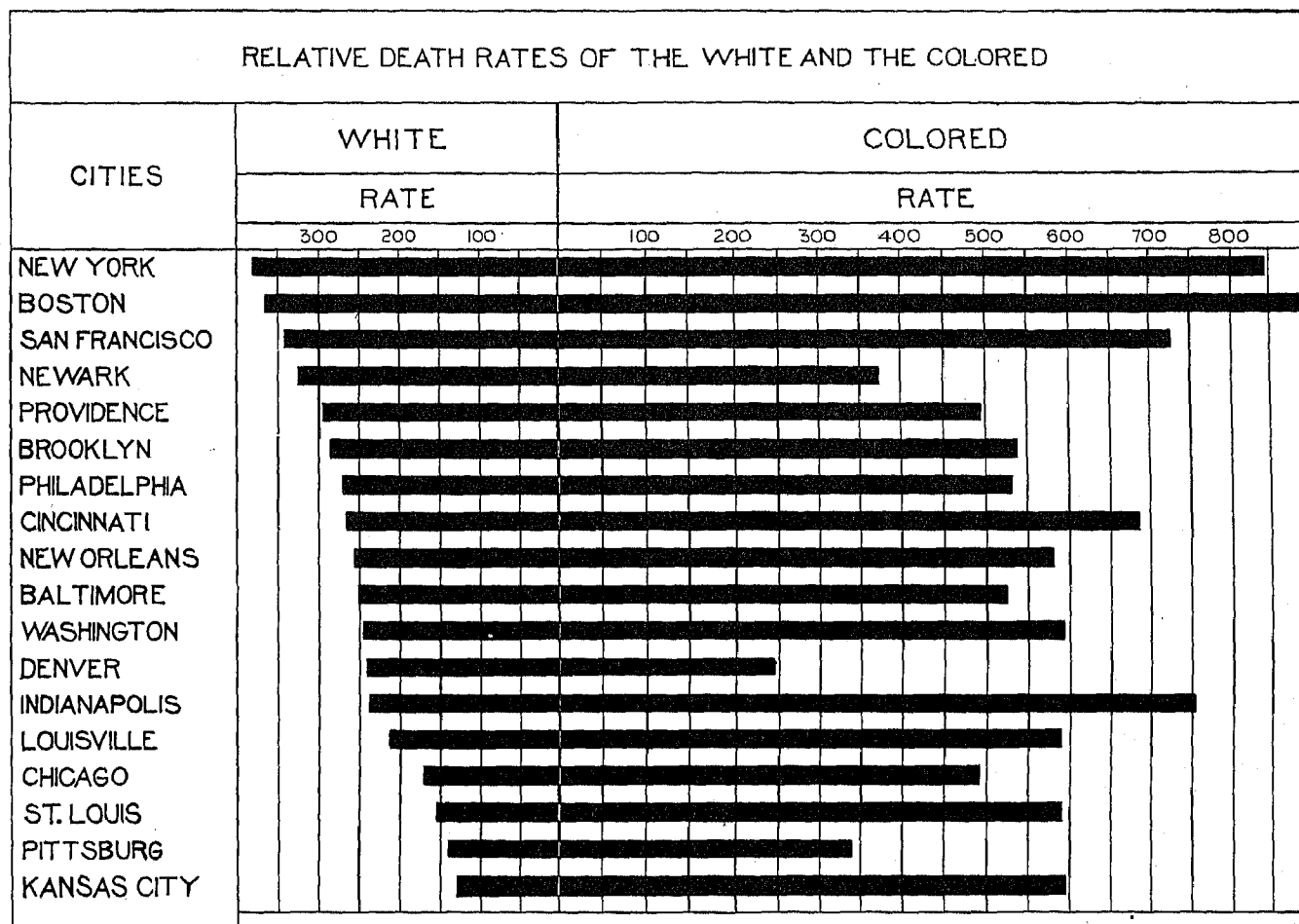
The following table shows for the 28 cities the death rates from consumption during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	208.81	252.85	213.22	190.30	206.84	383.07	583.49	142.64	484.60	243.74
(Of mothers.)										
Boston.....	375.72	365.78	302.25	175.34	419.07	480.60	884.75	172.01	584.20	299.84
Brooklyn.....	288.34	284.89	235.28	186.46	270.11	386.61	539.01	169.97	432.85	236.72
Buffalo.....	186.18	181.93	168.18	118.07	194.38	207.40	1,112.06	90.96	274.12	216.95
Cincinnati.....	280.22	263.65	225.79	105.42	244.06	377.23	684.70	93.47	310.01	237.53
Cleveland.....	158.79	150.01	128.88	131.35	127.35	201.18	395.39	111.45	248.86	150.88
Detroit.....	162.23	150.11	140.77	88.53	169.32	179.13	521.13	68.49	283.82	184.80
Indianapolis.....	283.58	238.89	226.07	250.05	148.99	311.44	753.77	136.93	265.90	177.61
Jersey city.....	271.77	272.45	222.15	158.81	262.01	374.20	223.51	133.86	406.18	218.60
Milwaukee.....	183.89	183.33	147.03	62.42	170.74	240.13	428.27	60.46	305.78	183.22
Minneapolis.....	152.97	149.95	136.10	122.38	151.21	173.51	516.99	111.34	231.26	24.05
Newark.....	320.68	325.53	232.41	227.68	328.40	420.62	374.62	181.85	537.83	312.51
New York.....	387.45	379.53	314.79	217.76	359.87	466.26	845.21	202.45	648.56	317.50
Pittsburg.....	149.19	142.63	120.63	90.99	143.88	190.01	339.32	67.61	227.67	171.31
Providence.....	303.45	297.44	301.55	194.37	432.73	288.44	493.71	195.56	478.78	192.25
Rochester.....	213.60	213.77	193.41	137.74	234.83	261.75	173.01	83.38	297.84	172.05
San Francisco.....	378.26	341.71	246.98	503.69	98.04	499.74	727.89	3.93	261.68	210.35
St. Paul.....	125.42	124.59	99.30	138.66	73.62	162.02	196.85	117.00	192.45	100.03
Washington.....	358.95	245.00	226.91	194.76	340.39	378.03	591.83	176.28	489.62	238.09
(Of persons.)										
Allegheny.....	147.22	140.13	125.23	.....	.....	183.93	435.13	125.23	252.84	158.10
Baltimore.....	293.02	250.58	227.08	.....	.....	352.89	524.55	227.08	522.82	329.17
Chicago.....	175.93	171.61	135.04	.....	.....	223.30	491.52	135.04	315.59	201.81
Denver.....	240.83	240.64	231.45	.....	.....	270.04	245.64	231.45	308.35	297.79
Kansas city.....	170.33	130.45	119.10	.....	.....	184.14	597.34	119.10	172.94	212.86
Louisville.....	281.14	214.41	200.01	.....	.....	281.81	589.43	200.01	304.01	262.52
New Orleans.....	343.75	257.08	220.95	.....	.....	409.99	581.48	220.95	441.75	414.54
Omaha.....	67.64	67.75	53.49	.....	.....	94.49	64.41	53.49	196.71	96.0
Philadelphia.....	279.57	269.42	242.98	.....	.....	342.22	532.52	242.98	483.17	273.4
St. Louis.....	184.61	158.70	120.32	.....	.....	238.20	591.15	129.32	259.58	239.39

It will be seen from this table that the death rate of the colored from consumption (583.49) was more than twice as great as that of the whites (252.85); that it was much greater among the foreign born whites (333.07) than among the native whites (213.32), and greater among the native whites having one or both parents foreign born (266.84) than among the native whites having both parents native (190.30).

It was about twice as great among the children of mothers born in Ireland (484.60) as among those of mothers born in Germany (243.74), and more than three times as great as among those of mothers born in the United States (142.64); hence the death rate from consumption in any one of these cities depended very much upon the proportion of colored persons and of persons of Irish descent in its population. The same is true as regards the death rate from pneumonia in adults. Where there was a high death rate from consumption there was usually also a high death rate from pneumonia, as will be seen by the diagram under the head of "Pneumonia" and by comparison of the death rates for these two diseases given in connection with the description of the wards and districts in the different cities.

The following diagram shows for 18 cities the relative death rates from consumption among the white and among the colored during the census year:



## PNEUMONIA.

The total number of deaths from pneumonia in the 28 cities during the census year was 21,344, giving an average death rate of 220.09 per 100,000, ranging from 337.36 in New York, 323.92 in Jersey city, and 285.81 in Denver to 91.13 in Omaha, 99.59 in Indianapolis, and 119.41 in St. Paul.

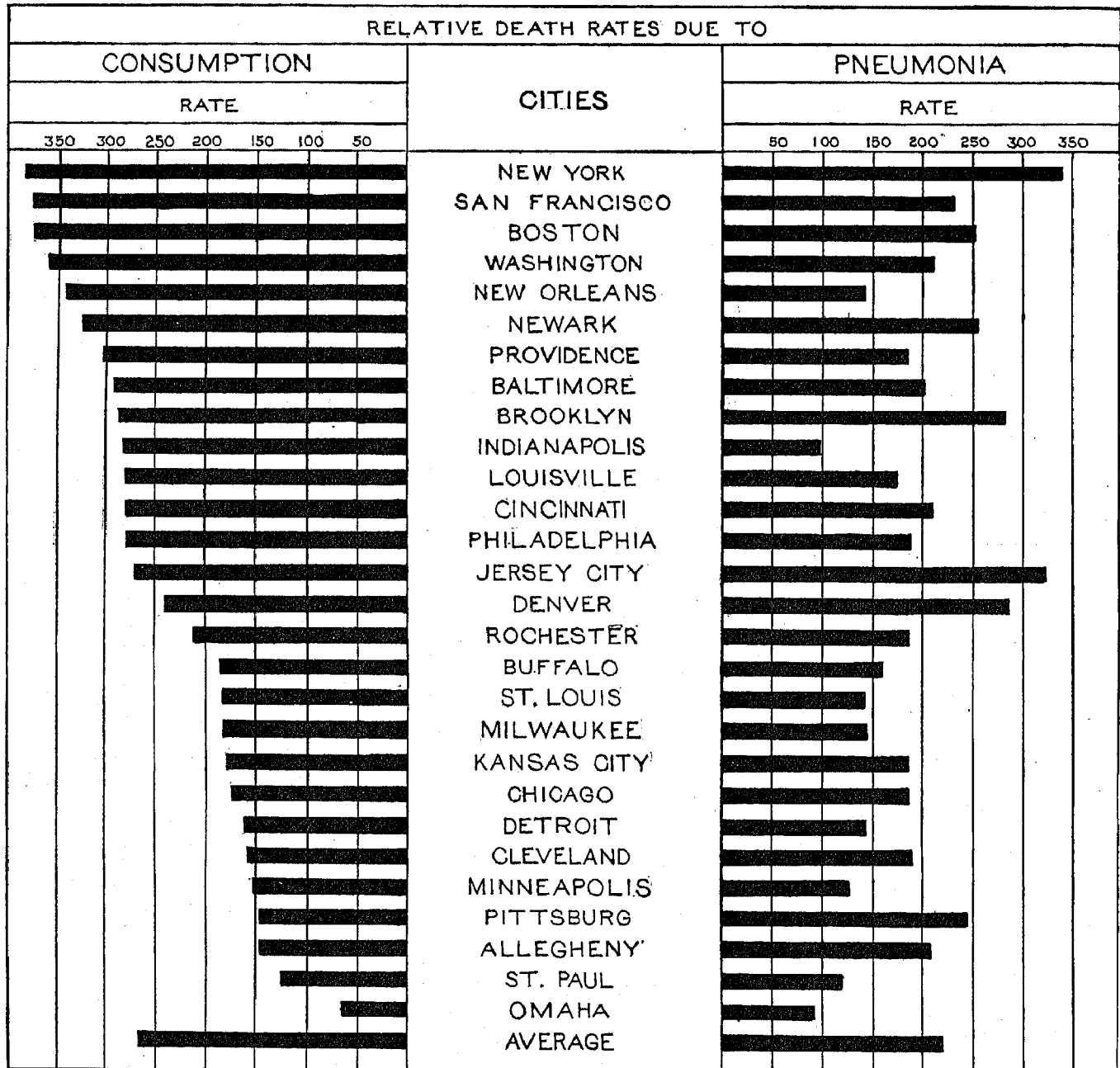
The greatest death rate reported from this cause was 728.29, in ward 1 in New York, and the lowest was 27.45, in ward 20 in Indianapolis.

The following table shows for the 28 cities and for their aggregate the number of deaths from pneumonia during the census year, in the aggregate and for 4 age groups, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from this cause:

CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 years and over.	CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 years and over.
Total.....	220.09	600.47	47.87	121.29	428.20	Philadelphia.....	187.11	612.87	47.85	108.93	333.37
New York.....	337.36	1,148.85	55.42	187.04	622.75	Kansas city.....	185.36	908.30	66.59	80.09	290.48
Jersey city.....	323.92	918.42	99.89	210.52	502.60	Rochester.....	185.22	531.05	30.11	97.48	416.12
Denver.....	285.81	878.84	133.58	179.47	605.97	Chicago.....	184.75	526.34	36.37	108.26	380.39
Brooklyn.....	280.40	659.61	71.43	169.70	610.61	Providence.....	184.64	446.98	20.40	112.54	399.75
Newark.....	254.08	859.80	46.04	132.13	472.82	Louisville.....	174.39	860.01	46.56	70.35	256.45
Boston.....	251.29	673.38	40.44	144.01	539.81	Buffalo.....	159.98	498.30	24.48	73.20	358.08
Pittsburg.....	244.74	835.54	43.78	118.75	524.52	Detroit.....	143.29	361.73	39.98	73.40	334.10
San Francisco.....	228.76	918.35	51.71	131.73	407.75	Milwaukee.....	142.81	448.10	14.84	68.41	300.82
Cincinnati.....	210.17	753.13	45.18	106.61	388.13	St. Louis.....	141.44	398.85	20.37	81.43	306.87
Washington.....	210.08	805.74	00.85	111.86	320.91	New Orleans.....	141.30	358.78	26.67	97.80	207.62
Allegheny.....	208.00	636.04	68.97	93.92	474.38	Minneapolis.....	124.44	360.88	36.75	74.16	204.62
Baltimore.....	202.10	853.61	47.13	82.72	329.20	St. Paul.....	119.41	385.76	20.92	56.61	287.93
Cleveland.....	188.25	737.21	70.47	81.15	285.98	Indianapolis.....	99.59	476.09	24.67	38.67	168.97
						Omaha.....	91.13	319.74	30.09	49.60	105.25

Some of the cases of death reported as due to pneumonia were very probably due to consumption, and vice versa. The death rate from pneumonia in any given locality is largely influenced by the proportion of children and of persons of advanced age in the population. It will be seen from the preceding table that the death rate from pneumonia in persons 45 years of age and over was more than three times as great as it was in persons between 15 and 45, and more than eight times as great as it was in persons between 5 and 15 years of age. The death rate from this cause in children under 5 years of age was still greater, but a large part of the deaths reported under this name in young children are due to a form of inflammation of the lungs, which is quite different from that which causes the majority of deaths reported under this head in adults. The relations between whooping cough and pneumonia in children are indicated by the diagram under the head of "Whooping cough". The death rate from pneumonia is also influenced by the race of the inhabitants, much in the same way as that of consumption.

The following diagram shows for the 28 cities the relative death rates due to consumption and pneumonia:



It will be seen from this diagram that as a general rule a high death rate from consumption was accompanied by a high death rate from pneumonia. This will also appear in the tables in a subsequent part of this report, showing the death rates from these diseases in different wards of certain cities.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

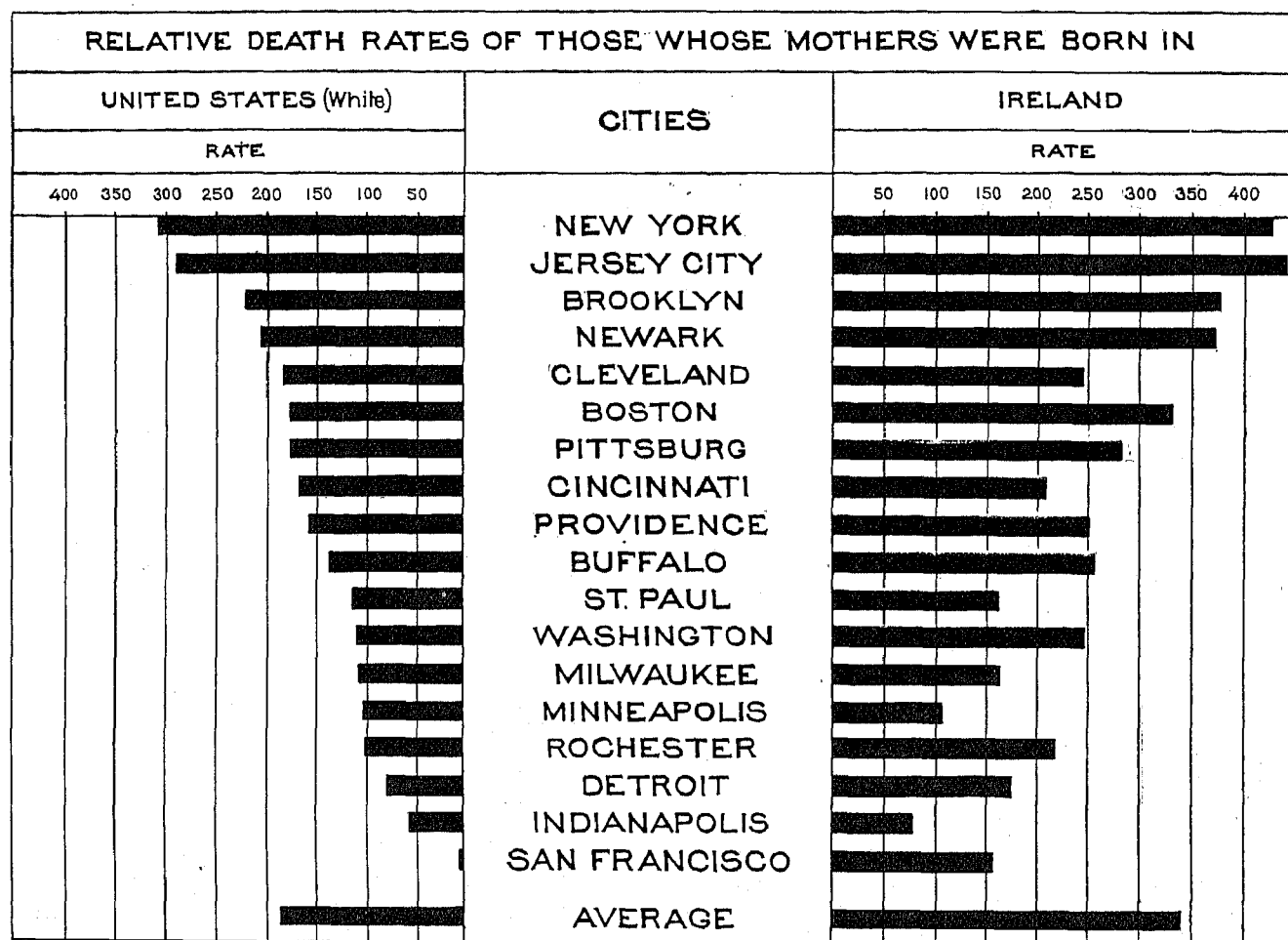
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The following table shows for the 28 cities the death rates from pneumonia during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	220.09	214.55	199.78	203.28	248.16	244.51	329.33	185.60	339.73	189.82
(Of mothers.)										
Boston.....	251.29	249.84	225.98	170.91	276.07	292.06	325.96	178.06	333.47	188.02
Brooklyn.....	280.40	277.47	240.90	244.41	238.39	352.48	493.33	223.04	375.82	233.56
Buffalo.....	159.98	159.92	147.61	140.27	148.32	182.74	171.09	137.93	258.18	136.92
Cincinnati.....	210.17	200.54	174.84	234.00	139.25	277.66	445.05	168.43	206.67	184.87
Cleveland.....	188.25	188.14	213.15	191.35	220.63	146.50	107.09	183.00	245.75	180.81
Detroit.....	143.29	141.78	130.80	102.51	146.40	158.12	231.62	70.59	175.02	110.23
Indianapolis.....	90.50	88.28	84.32	91.23	68.45	110.73	218.48	58.19	77.55	99.20
Jersey city.....	323.92	323.45	307.66	295.96	315.02	355.40	357.62	289.37	440.67	200.62
Milwaukee.....	142.81	143.14	137.39	132.17	138.85	152.12	108.33	108.33	161.80	122.26
Minneapolis.....	124.44	122.41	120.54	103.84	138.05	125.50	309.28	104.27	103.07	78.15
Newark.....	254.08	250.62	220.20	220.47	228.97	207.86	398.03	208.05	371.59	231.22
New York.....	337.36	336.66	340.15	311.20	366.74	319.47	389.50	307.96	428.20	244.44
Pittsburg.....	244.74	236.28	205.07	194.97	212.99	303.47	490.13	177.93	282.07	223.60
Providence.....	184.64	185.02	166.14	167.40	164.49	226.27	172.80	157.21	251.01	224.29
Rochester.....	185.22	184.52	170.31	167.79	182.65	203.86	346.02	192.14	219.46	122.08
San Francisco.....	228.76	228.67	215.67	119.08	271.70	250.36	229.07	3.98	155.03	98.27
St. Paul.....	119.41	116.99	123.49	128.99	119.90	107.39	328.08	114.21	161.41	112.99
Washington.....	210.08	140.28	121.90	123.94	114.31	275.42	352.72	109.73	247.76	107.48
(Of persons.)										
Allegheny.....	208.00	203.39	174.79	.....	.....	287.39	395.57	174.79	379.27	263.49
Baltimore.....	202.10	174.86	166.80	.....	.....	209.99	350.69	166.80	283.82	228.45
Chicago.....	184.75	182.05	182.89	.....	.....	183.04	316.46	182.89	315.59	170.15
Denver.....	285.81	286.43	273.65	.....	.....	327.32	270.20	273.65	308.35	521.12
Kansas city.....	185.36	154.85	139.53	.....	.....	227.76	446.20	139.53	410.72	180.06
Louisville.....	174.39	135.89	119.27	.....	.....	213.11	352.26	119.27	266.01	205.76
New Orleans.....	141.30	113.32	91.31	.....	.....	206.47	218.05	91.31	227.19	202.86
Omaha.....	91.13	89.84	94.18	.....	.....	77.31	128.81	94.18	73.76	132.87
Philadelphia.....	187.11	180.31	172.82	.....	.....	200.93	356.67	172.82	267.72	177.40
St. Louis.....	141.44	127.15	100.94	.....	.....	198.06	385.77	100.94	313.14	189.70

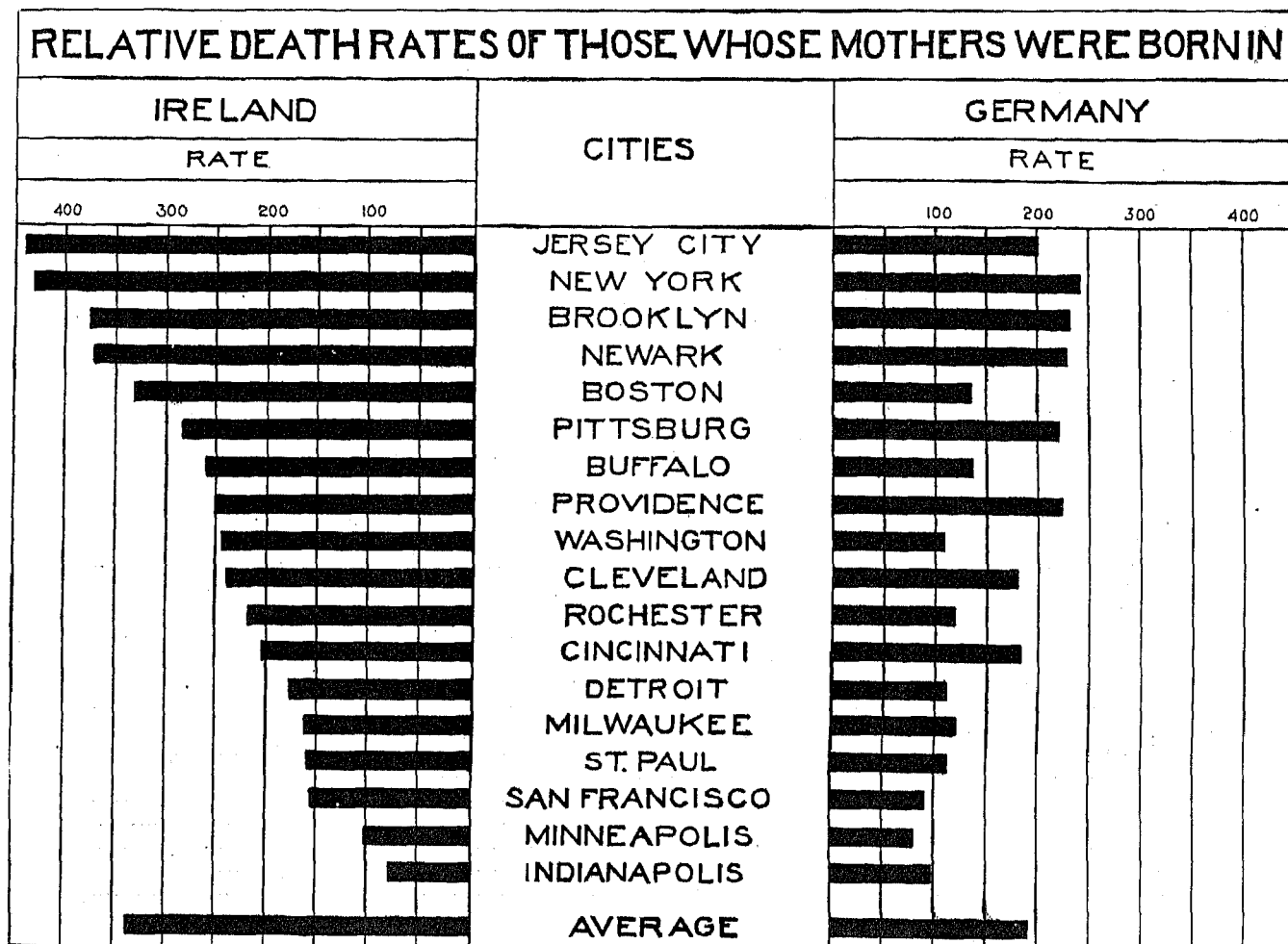
It will be seen from this table that the death rate of the colored from pneumonia (329.33) was much greater than that of the whites (214.55); that the death rate of the foreign born whites (244.51) was decidedly greater than that of the native whites (199.78); that the death rate of the native whites having one or both parents foreign born (248.16) was greater than that of the native whites having both parents native (203.28), and that the death rate of those whose mothers were born in Ireland (339.73) was greatest of all; of those whose mothers were born in Germany the rate was 189.82, and of those whose mothers were born in the United States the rate was 185.60.

The following diagram shows for 18 cities the relative death rates from pneumonia of those whose mothers were born in the United States and in Ireland, the cities being arranged in the order of magnitude of the ratio of the former:



It will be seen from this diagram that the general rule that the death rate from pneumonia was greater among the children of Irish mothers than among those of native mothers holds good for every city except Minneapolis, and that the rates for the two classes for the most part increased or decreased together.

The following diagram shows for 18 cities the relative death rates from pneumonia per 100,000 of population of those whose mothers were born in Ireland and in Germany, the cities being arranged in the order of magnitude of the ratio of the former:



It will be seen from this diagram that the death rate from pneumonia was greater among the children of Irish mothers than among the children of German mothers in every city except Indianapolis.



## MEASLES.

The total number of deaths in the 28 cities from measles during the census year was 1,727, giving an average death rate of 17.81 per 100,000, ranging from 54.48 in Pittsburg, 54.33 in Cleveland, and 53.17 in Baltimore to 0.44 in St. Louis, 1.90 in Indianapolis, and 1.96 in Milwaukee.

In the 28 largest English cities the death rate from measles for the year 1890 was 63 per 100,000 of population, ranging from 119 in Derby, 96 in Manchester, 86 in Liverpool, and 73 in London to 3 in Portsmouth, 4 in Newcastle, and 8 in Hull.

In certain other European cities the corresponding rates were: in Edinburg, 92.2; in Glasgow, 120.8; in Dublin, 30.0; in Paris, 66.5; in Brussels, 30.8; in Amsterdam, 52.6; in Copenhagen, 66.5; in Stockholm, 33.8; in St. Petersburg, 91.8; in Moscow, 58.3; in Vienna, 57.1; in Rome, 41.6.

In the 28 largest German cities the average death rate from measles and r  theln for the year 1890 was 28 per 100,000 of population, ranging from 65 in K  nigsberg, 58 in Mannheim, and 56 in Nuremberg and in Crefeld to 1 in Bremen and in Frankfort on the Main, 4 in Breslau, and 28 in Berlin.

The death rate from measles was, therefore, much less in the largest cities of the United States than in those of Europe, including r  theln in the German cities.

The following table shows for the 28 cities and for their aggregate the death rates from measles during the census year, in the aggregate and for each of 3 age groups, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from this cause:

CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 years and over.	CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 years and over.
Total .....	17.81	147.63	7.10	0.43	Detroit .....	13.11	97.24	4.70	.....
Pittsburg.....	54.48	435.18	9.95	.....	San Francisco .....	11.04	130.57	4.14	0.44
Cleveland.....	54.33	390.19	28.91	1.15	Minneapolis .....	10.93	77.33	7.35	0.85
Baltimore.....	53.17	457.14	19.54	1.00	St. Paul.....	10.51	75.98	4.18	.....
Kansas city.....	45.21	379.12	48.88	1.04	Philadelphia.....	10.32	96.21	3.19	0.27
Denver.....	41.23	324.34	50.89	5.01	Omaha.....	9.26	61.49	3.76	2.06
Cincinnati.....	36.71	303.17	20.08	0.97	Louisville.....	8.07	84.06	.....	.....
Providence.....	31.78	341.81	8.83	1.02	Brooklyn.....	7.44	58.36	3.83	0.18
Newark.....	29.70	263.41	2.71	.....	Buffalo.....	5.48	42.54	.....	.....
New York.....	27.32	240.46	5.17	0.37	Chicago.....	5.36	37.65	1.37	0.27
Rochester.....	20.91	148.69	26.35	.....	Boston.....	3.57	32.42	4.12	.....
Allegheny.....	20.90	159.01	13.79	.....	Washington.....	2.60	29.35	.....	.....
Jersey city.....	17.79	135.06	0.05	1.80	Milwaukee.....	1.96	14.23	.....	.....
New Orleans.....	13.63	96.45	11.43	0.61	Indianapolis.....	1.90	21.16	.....	.....
					St. Louis.....	0.44	3.97	.....	.....

It will be seen from this table that the death rate from measles was twenty times as great in children under 5 years of age as in those above that age, and that there was no correspondence between the differences in the death rates in the first age group in the different cities and the differences in the death rates in the second age group.

The highest death rates in the second age group occurred in Denver (50.89), Kansas city (48.83), Cleveland (28.91), Rochester (26.35), and Cincinnati (20.08).

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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The following table shows for the 28 cities the death rates from measles during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total.....	17.81	17.93	25.31	21.86	34.41	2.95	15.38	(Of mothers.)		
								10.52	11.01	13.99
Boston.....	3.57	3.64	4.50	0.74	8.14	1.01	.....	1.34	3.11	.....
Brooklyn.....	7.44	7.54	10.20	8.09	11.86	1.92	.....	7.70	3.06	3.58
Buffalo.....	5.48	5.50	7.80	7.05	8.29	1.12	.....	0.50	0.50	2.09
Cincinnati.....	36.71	36.81	47.68	02.23	38.93	4.21	34.23	54.52	14.70	24.30
Cleveland.....	54.33	54.97	85.51	38.92	114.32	4.13	.....	41.28	80.88	52.37
Detroit.....	13.11	13.94	20.58	11.65	25.46	2.47	.....	0.25	.....	8.70
Indianapolis.....	1.90	2.08	2.44	3.51	.....	.....	.....	3.42	.....	.....
Jersey city.....	17.79	18.04	25.03	16.84	31.81	1.88	.....	23.02	21.08	9.12
Milwaukee.....	1.96	1.96	2.41	.....	3.09	1.26	.....	.....	.....	3.53
Minneapolis.....	10.93	11.02	10.53	11.13	22.48	1.65	.....	12.37	7.97	6.01
Newark.....	29.70	30.41	42.57	41.23	43.69	3.61	.....	40.07	22.82	18.06
New York.....	27.32	27.78	44.33	31.42	50.33	5.49	9.89	27.73	9.01	12.14
Pittsburg.....	54.48	55.06	76.19	51.99	95.17	9.67	37.70	48.04	42.31	52.29
Providence.....	31.78	29.67	40.97	35.15	48.08	4.97	38.74	34.51	23.24	32.04
Rochester.....	20.91	21.00	27.78	30.05	26.09	5.03	.....	22.03	5.23	17.80
San Francisco.....	11.04	12.19	17.14	40.23	3.73	3.94	.....	1.33	1.38	.....
St. Paul.....	10.51	10.64	16.55	9.07	21.03	1.88	.....	8.80	.....	22.00
Washington.....	2.60	1.94	2.20	1.80	3.46	.....	3.96	2.70	.....	.....
								(Of persons.)		
Allegheny.....	20.90	21.41	28.70	.....	.....	.....	.....	28.70	.....	.....
Baltimore.....	53.17	55.56	67.32	.....	.....	4.97	40.12	67.32	.....	4.61
Chicago.....	5.36	5.35	8.18	.....	.....	1.33	6.73	8.18	1.46	1.60
Denver.....	41.23	42.87	52.43	.....	.....	12.27	.....	52.43	.....	87.22
Kansas city.....	45.21	42.08	48.89	.....	.....	9.09	71.97	48.89	.....	32.74
Louisville.....	8.07	5.28	0.42	.....	.....	.....	20.93	0.42	.....	.....
New Orleans.....	13.63	13.53	16.73	.....	.....	.....	13.92	16.73	.....	.....
Omaha.....	9.26	9.57	10.01	.....	.....	5.73	.....	10.01	.....	12.08
Philadelphia.....	10.32	10.43	14.22	.....	.....	.....	7.43	14.22	.....	.....
St. Louis.....	0.44	0.24	0.32	.....	.....	.....	8.00	0.32	.....	.....

It will be seen from this table that the death rate from measles was greater among the whites (17.93) than among the colored (15.38); that it was much greater among the native whites (25.31) than among the foreign born (2.95), owing to the much greater proportion of children of ages specially susceptible to this disease among the white population; that it was decidedly greater among the native whites of whom one or both parents were foreign born (34.41) than among those of whom both parents were native (21.86); that it was greater among those whose mothers were born in the United States (19.52) than among those whose mothers were born in Germany (13.99), or of those whose mothers were born in Ireland (11.01).

The death rate from this cause of those whose mothers were born in Ireland was remarkably high in Cleveland (80.88), in Pittsburg (42.31), in Providence (23.24), and in Newark (22.82).

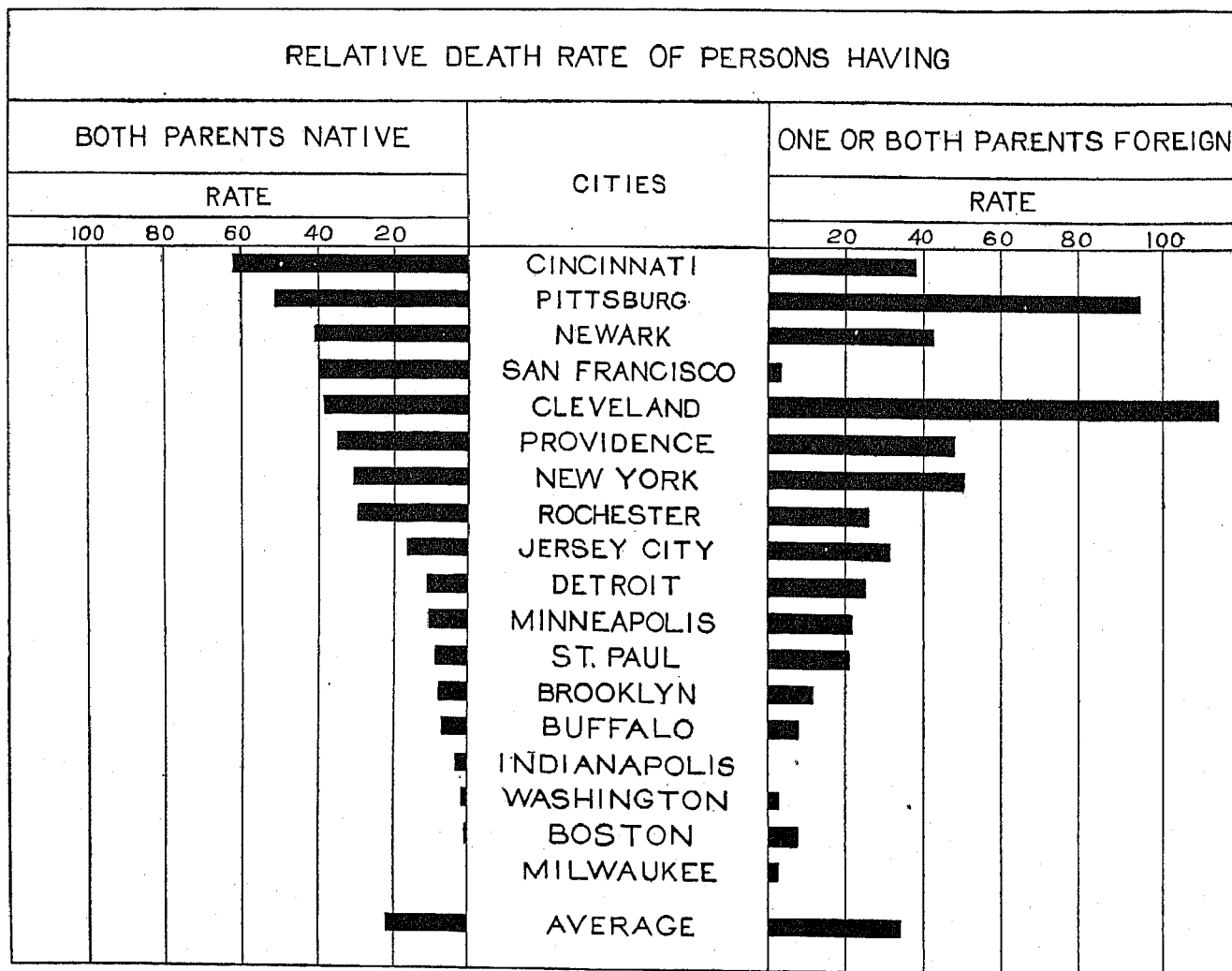
## VITAL AND SOCIAL STATISTICS.

The following table shows for the 28 cities the number of deaths among children under 5 years of age from measles and scarlet fever per 100,000 of the population of that age group, the cities being arranged in the order of magnitude of the death rates from measles:

CITIES.	DEATH RATES PER 100,000 OF POPULATION.		CITIES.	DEATH RATES PER 100,000 OF POPULATION.	
	Measles.	Scarlet fever.		Measles.	Scarlet fever.
Baltimore.....	457.14	88.83	New Orleans.....	96.45	3.86
Pittsburg.....	435.18	184.51	Philadelphia.....	96.21	113.53
Cleveland.....	399.19	115.89	Louisville.....	84.06	84.06
Kansas city.....	379.12	86.88	Minneapolis.....	77.33	108.26
Providence.....	341.81	70.11	St. Paul.....	75.98	134.43
Denver.....	324.34	156.94	Omaha.....	61.49	12.30
Cincinnati.....	303.17	47.87	Brooklyn.....	58.36	113.42
Newark.....	263.41	188.98	Buffalo.....	42.54	66.85
New York.....	240.46	160.31	Chicago.....	37.65	96.60
Allegheny.....	159.01	117.16	Boston.....	32.42	39.90
Rochester.....	148.69	.....	Washington.....	29.35	68.48
Jersey city.....	135.06	70.23	Indianapolis.....	21.16	169.28
San Francisco.....	130.57	52.23	Milwaukee.....	14.23	71.13
Detroit.....	97.24	97.24	St. Louis.....	3.97	148.82

This table shows that there was no definite relation between the magnitude of the death rates from scarlet fever and the magnitude of the death rates from measles in the different cities.

The following diagram shows for 18 cities the relative death rates from measles among the native born of native parents and the natives having one or both parents foreign born:



## WHOOPIING COUGH.

The total number of deaths from whooping cough in the 28 cities during the census year was 1,671, giving an average annual death rate of 17.23 per 100,000, ranging from 36.92 in Kansas city, 32.51 in Jersey city, and 31.78 in Providence to 2.48 in New Orleans, 5.26 in St. Paul, and 5.98 in St. Louis.

In the 28 largest English cities the death rate from whooping cough for the year 1890 was 59 per 100,000 of population, ranging from 93 in Bolton, 85 in Bristol, and 73 in London to 10 in Leicester, 18 in Blackburn, and 19 in Nottingham.

The following were the death rates per 100,000 of population from whooping cough for the year 1890 in some of the other large European cities: Edinburg, 94.0; Glasgow, 133.7; Dublin, 52.9; Paris, 22.6; Brussels, 20.1; Amsterdam, 34.4; Copenhagen, 48.9; Stockholm, 40.6; St. Petersburg, 15.0; Moscow, 19.9; Berlin, 38.3; Hamburg, 25.8; Vienna, 9.7; Buda-Pesth, 7.3, and Rome, 11.7.

It will be seen that the death rates from this cause in the largest cities of the United States during the census year were below the average for European cities.

The following table shows for the 28 cities and for their aggregate the number of deaths from whooping cough, in the aggregate and with distinction of sex, with the death rates per 100,000 of corresponding population:

CITIES.	DEATHS.			RATES PER 100,000 OF POPULATION.		
	Total.	Males.	Females.	Total.	Males.	Females.
Total .....	1, 071	763	918	17.23	15.52	18.04
Allegheny .....	10	7	0	15.20	19.30	17.00
Baltimore .....	52	28	24	11.07	19.58	10.51
Boston .....	112	51	61	24.97	23.42	26.44
Brooklyn .....	108	73	95	20.89	18.52	23.05
Buffalo .....	69	27	42	26.09	20.95	33.13
Cincinnati .....	63	26	37	21.22	17.98	24.36
Cleveland .....	71	37	34	27.17	27.02	20.39
Chicago .....	147	64	83	13.37	11.26	15.02
Denver .....	16	10	6	14.09	10.40	13.05
Detroit .....	26	16	10	12.03	15.79	9.56
Indianapolis .....	11	7	4	10.43	13.38	7.53
Jersey city .....	53	26	27	32.51	31.00	33.95
Kansas city .....	40	21	28	36.92	20.50	45.41
Louisville .....	12	2	10	7.45	2.54	12.12
Milwaukee .....	10	10	0	9.20	9.92	8.68
Minneapolis .....	11	7	4	6.08	7.90	5.19
Newark .....	59	21	32	29.15	23.00	34.40
New Orleans .....	6	3	3	2.48	2.64	2.33
New York .....	449	207	242	29.03	27.00	31.62
Omaha .....	11	4	7	7.83	4.90	11.60
Philadelphia .....	98	37	61	9.36	7.24	11.38
Pittsburg .....	17	7	10	7.12	5.03	8.70
Providence .....	42	19	23	31.78	20.80	33.54
Rochester .....	11	7	4	8.22	10.80	5.76
St. Louis .....	27	11	16	5.98	4.82	7.15
St. Paul .....	7	1	6	5.20	1.44	9.43
San Francisco .....	25	10	15	8.36	5.89	11.01
Washington .....	30	14	16	13.02	12.78	13.24

It will be seen from this table that the death rates from this cause were decidedly greater among the females than among the males, the exceptions to this rule occurring in Baltimore, Cleveland, Denver, Detroit, Indianapolis, Milwaukee, Minneapolis, New Orleans, and Rochester. The number of deaths from this cause during the census year in Indianapolis, Louisville, Minneapolis, New Orleans, Omaha, Rochester, and St. Paul was so small that the individual rates for these cities, either in this or in the following tables, have no significance.

## VITAL AND SOCIAL STATISTICS.

The following table shows for the 28 cities and for their aggregate the death rates from whooping cough during the census year, in the aggregate and for 3 age periods, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from this cause:

CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 years and over.	CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 years and over.
Total.....	17.23	151.12	3.31	0.12	Washington.....	13.02	132.06	6.76	.....
Kansas city.....	36.92	331.73	31.08	.....	Detroit.....	12.63	101.13	.....	.....
Jersey city.....	32.51	280.93	3.03	.....	Baltimore.....	11.97	101.83	5.75	.....
Providence.....	31.78	333.04	17.66	.....	Indianapolis.....	10.43	116.38	.....	.....
New York.....	29.03	263.53	4.43	0.28	Philadelphia.....	9.36	89.48	1.59	0.27
Newark.....	29.15	258.44	2.71	.....	Milwaukee.....	9.29	67.57	.....	.....
Cleveland.....	27.17	206.03	10.84	0.57	San Francisco.....	8.36	104.46	2.07	.....
Buffalo.....	26.99	203.60	3.77	.....	Rochester.....	8.22	77.89	.....	.....
Boston.....	24.97	274.34	2.75	.....	Omaha.....	7.83	67.64	.....	.....
Cincinnati.....	21.22	191.47	5.02	.....	Louisville.....	7.45	71.13	3.10	.....
Brooklyn.....	20.83	181.70	0.64	0.36	Pittsburg.....	7.12	59.18	.....	.....
Allegheny.....	15.20	133.90	.....	.....	Minneapolis.....	6.68	56.71	.....	.....
Denver.....	14.99	156.94	6.38	.....	St. Louis.....	5.98	49.61	2.18	.....
Chicago.....	13.37	100.86	2.33	.....	St. Paul.....	5.26	35.07	4.18	.....
					New Orleans.....	2.48	23.15	.....	.....

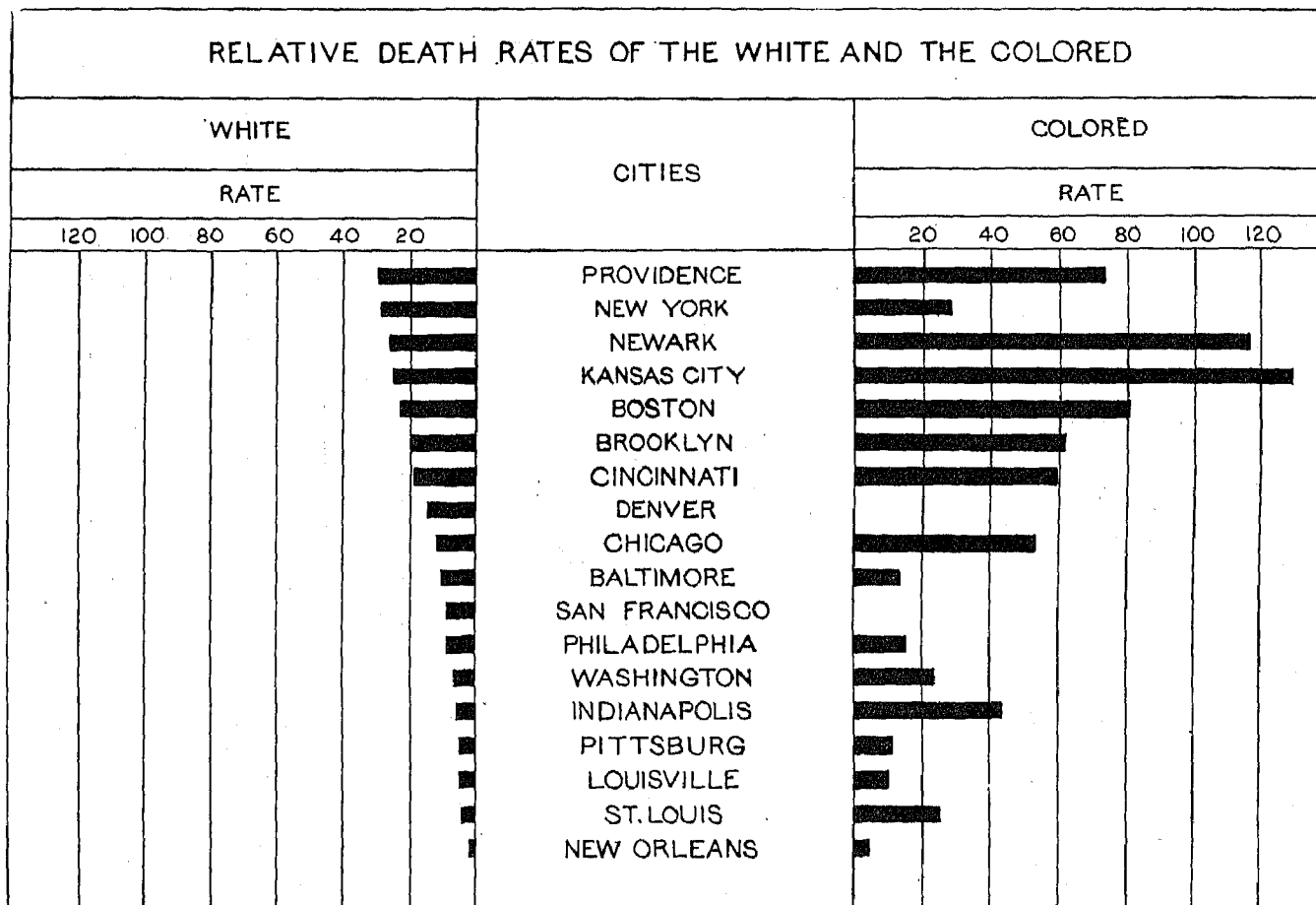
This table shows that the immense majority of the deaths from whooping cough occur in children under 5 years of age, and hence the proportion of children of this age in a city has a great influence upon the death rate from this cause. The death rate from whooping cough in persons from 5 to 15 years of age was unusually great in Kansas city (31.08), in Providence (17.66), and in Cleveland (10.84), the average death rate in this group being 3.31 per 100,000 population.

The following table shows for the 28 cities the death rates from whooping cough during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

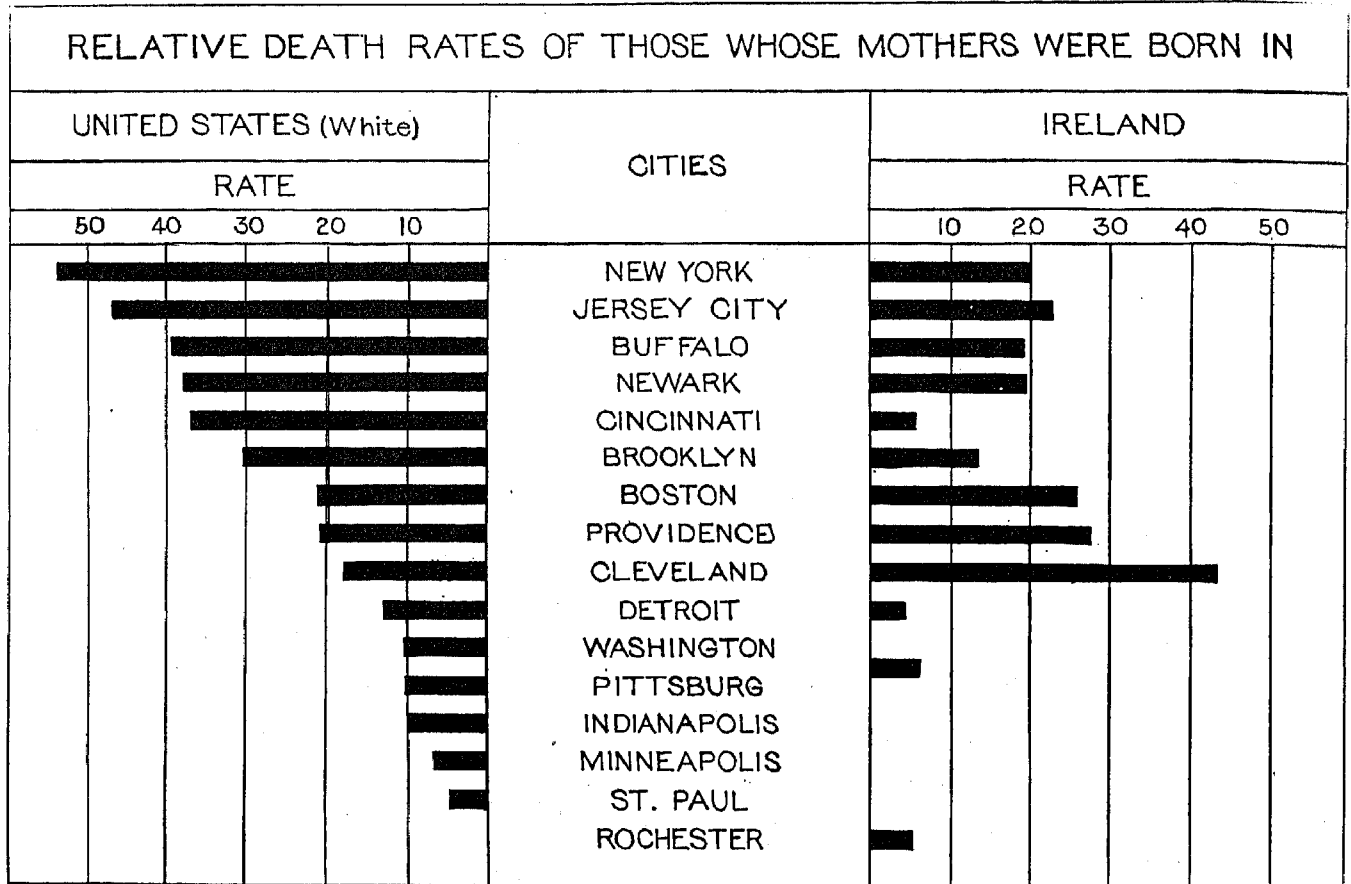
CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	17.23	16.85	24.57	26.30	35.86	1.18	24.77	(Of mothers.)		
Boston.....	24.97	23.87	36.37	18.42	52.89	1.28	81.49	21.50	26.13	10.04
Brooklyn.....	20.83	20.24	29.55	27.86	30.78	1.15	63.95	30.43	13.75	17.39
Buffalo.....	26.99	27.11	39.32	44.06	38.85	4.48	.....	39.60	19.12	13.59
Cincinnati.....	21.22	19.63	25.71	42.32	15.72	1.40	59.91	37.00	5.90	8.85
Cleveland.....	27.17	27.10	42.13	21.08	55.15	2.06	82.95	17.89	43.55	33.97
Detroit.....	12.63	11.88	19.76	20.97	19.10	.....	57.90	12.96	4.73	4.35
Indianapolis.....	10.43	7.27	8.55	12.28	.....	.....	43.70	10.27	.....	.....
Jersey city.....	32.51	32.97	49.26	38.50	56.04	.....	.....	47.24	22.99	33.44
Milwaukee.....	9.29	9.31	15.27	.....	19.54	.....	.....	.....	.....	13.19
Minneapolis.....	6.68	6.73	10.69	5.56	16.35	.....	.....	7.07	.....	.....
Newark.....	29.15	27.03	38.47	43.03	34.65	1.81	117.07	38.53	19.56	5.42
New York.....	29.63	29.67	50.55	50.65	50.50	1.73	27.28	54.38	20.03	10.35
Pittsburg.....	7.12	6.94	9.52	7.22	11.33	1.87	12.57	10.68	6.04	9.91
Providence.....	31.78	30.45	44.38	18.61	75.92	.....	74.06	21.09	27.89	96.12
Rochester.....	8.22	8.25	11.75	5.01	16.77	.....	.....	.....	5.23	2.54
San Francisco.....	8.36	9.24	14.18	1.61	21.47	0.99	.....	.....	1.38	1.98
St. Paul.....	5.26	5.32	8.91	6.45	10.52	.....	.....	5.57	.....	0.69
Washington.....	13.02	7.76	8.81	10.25	3.46	.....	23.78	10.79	.....	.....
Allegheny.....	15.20	15.57	19.57	.....	.....	3.83	.....	19.57	.....	.....
Baltimore.....	11.97	11.71	14.40	.....	.....	.....	13.37	14.40	.....	.....
Chicago.....	13.37	12.81	20.93	.....	.....	1.33	53.86	20.93	.....	1.89
Denver.....	14.99	15.69	20.46	.....	.....	.....	.....	20.46	.....	.....
Kansas city.....	36.92	26.09	30.55	.....	.....	4.85	129.54	30.55	.....	.....
Louisville.....	7.45	6.79	8.26	.....	.....	.....	10.46	8.26	.....	.....
New Orleans.....	2.48	1.69	2.09	.....	.....	.....	4.64	2.09	.....	.....
Omaha.....	7.83	8.10	9.91	.....	.....	2.86	.....	9.91	.....	.....
Philadelphia.....	9.36	9.14	12.32	.....	.....	0.37	14.86	12.32	.....	1.33
St. Louis.....	5.98	4.71	6.45	.....	.....	.....	25.86	6.45	.....	.....
								(Of persons.)		

The preceding table shows that the death rate from whooping cough was greater among the colored (24.77) than among the whites (16.85), and that it was much greater among the native whites (24.57) than among the foreign born (1.18), which was mainly due to the small proportion of children under 5 years of age among the foreign born. It was greater among the native whites having one or both parents foreign born (35.86) than among the native whites of whom both parents were native (26.30), and it was greater among those whose mothers were born in the United States (27.53) than among those whose mothers were born in Ireland (17.14) or those whose mothers were born in Germany (13.92).

The following diagram shows for 18 cities the relative death rates from whooping cough during the census year, among the white and among the colored, the cities being arranged in the order of magnitude of the ratio of the former:

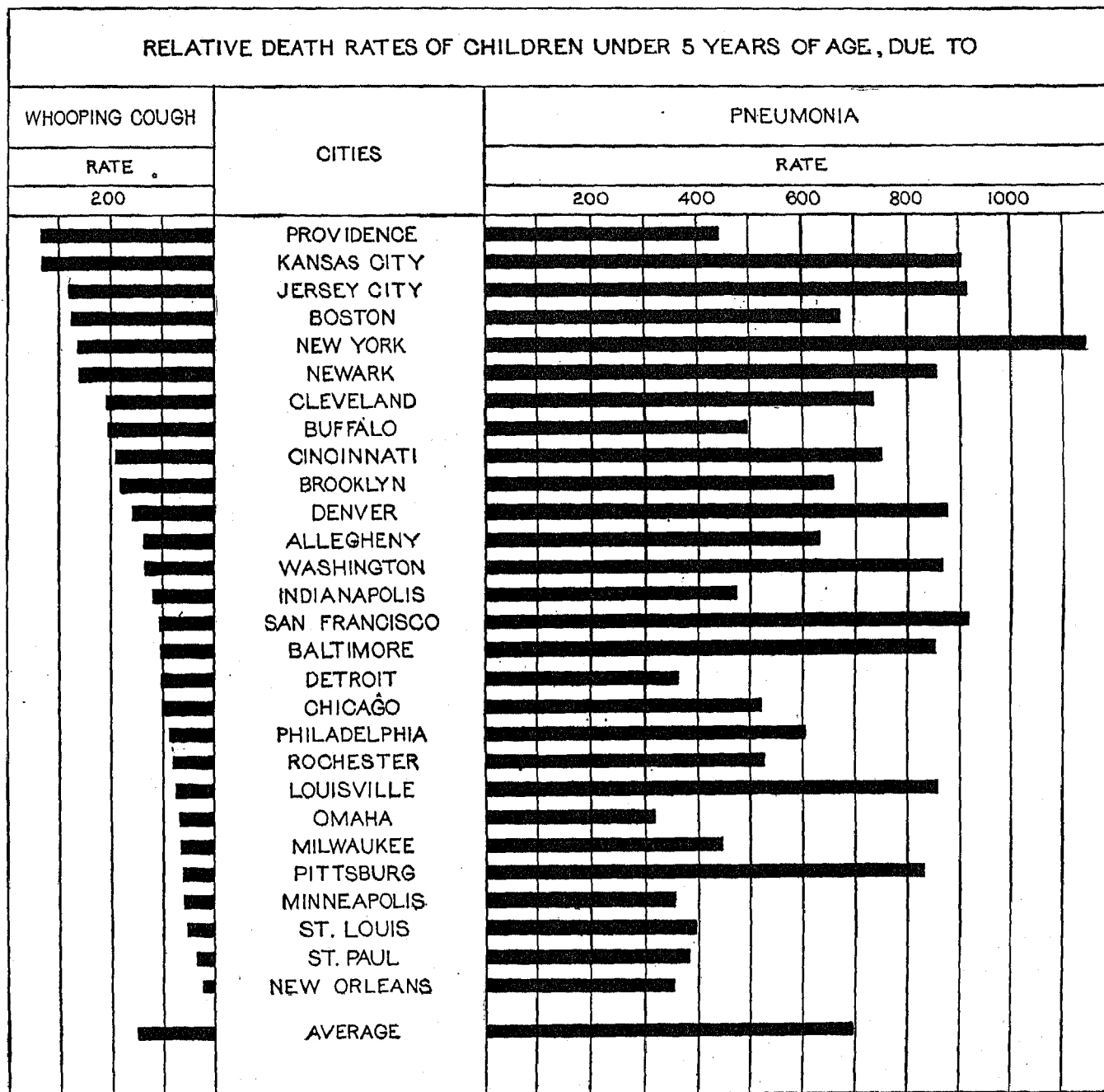


The following diagram shows for 16 cities the relative death rates from whooping cough during the census year among those whose mothers were born in the United States and those whose mothers were born in Ireland, the cities being arranged in the order of magnitude of the ratio of the former:



Part of the deaths attributed to whooping cough were due to pneumonia, the lobular or broncho pneumonia of young children.

The following diagram shows for the 28 cities the death rates from whooping cough and from pneumonia in children under 5 years of age, the cities being arranged in the order of magnitude of the ratio of the former:





## VITAL AND SOCIAL STATISTICS.

## CANCER AND TUMOR.

The total number of deaths in the 28 cities from cancer and tumor during the census year was 5,139, giving an average annual death rate of 52.99 per 100,000, ranging from 79.93 in San Francisco, 79.38 in Boston, and 70.65 in New Orleans to 20.65 in Omaha, 29.99 in Denver, and 33.04 in St. Paul.

The following table shows for the 28 cities and for their aggregate the death rates from cancer and tumor during the census year, in the aggregate and for 2 age groups, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates from these causes:

CITIES.	All ages.	15 to 45 years.	45 years and over.	CITIES.	All ages.	15 to 45 years.	45 years and over.
Total .....	52.99	23.99	241.62	Milwaukee .....	48.42	22.13	251.94
San Francisco .....	79.93	29.73	339.48	Brooklyn .....	48.24	18.96	223.30
Boston .....	79.38	34.40	310.30	Cleveland .....	48.21	27.55	216.35
New Orleans .....	70.65	34.57	287.86	St. Louis .....	48.03	21.94	227.68
Providence .....	65.08	25.82	246.57	Louisville .....	47.79	19.93	208.82
New York .....	62.89	29.60	285.48	Chicago .....	42.10	22.69	212.99
Baltimore .....	61.92	21.58	273.27	Allegheny .....	41.79	25.29	187.25
Philadelphia .....	55.88	22.86	230.64	Rochester .....	40.83	20.07	169.05
Cincinnati .....	53.22	27.14	225.75	Kansas city .....	39.93	25.22	180.10
Newark .....	51.15	20.41	228.48	Minneapolis .....	38.85	18.54	219.93
Jersey city .....	50.31	21.05	244.48	Indianapolis .....	33.20	21.09	125.37
Washington .....	49.91	27.55	178.04	Pittsburg .....	33.11	12.67	186.02
Buffalo .....	49.67	22.88	252.76	St. Paul .....	33.04	10.53	204.75
Detroit .....	48.57	20.97	225.82	Denver .....	29.99	14.06	153.41
				Omaha .....	20.65	11.81	146.44

It will be seen from this table that the mortality from cancer and tumor was much greater among persons 45 years of age and over than among younger persons, and also that the death rates from these causes varied greatly in the different cities, having been more than twice as great in San Francisco, Boston, and New Orleans as it was in Pittsburg, St. Paul, Denver, and Omaha.

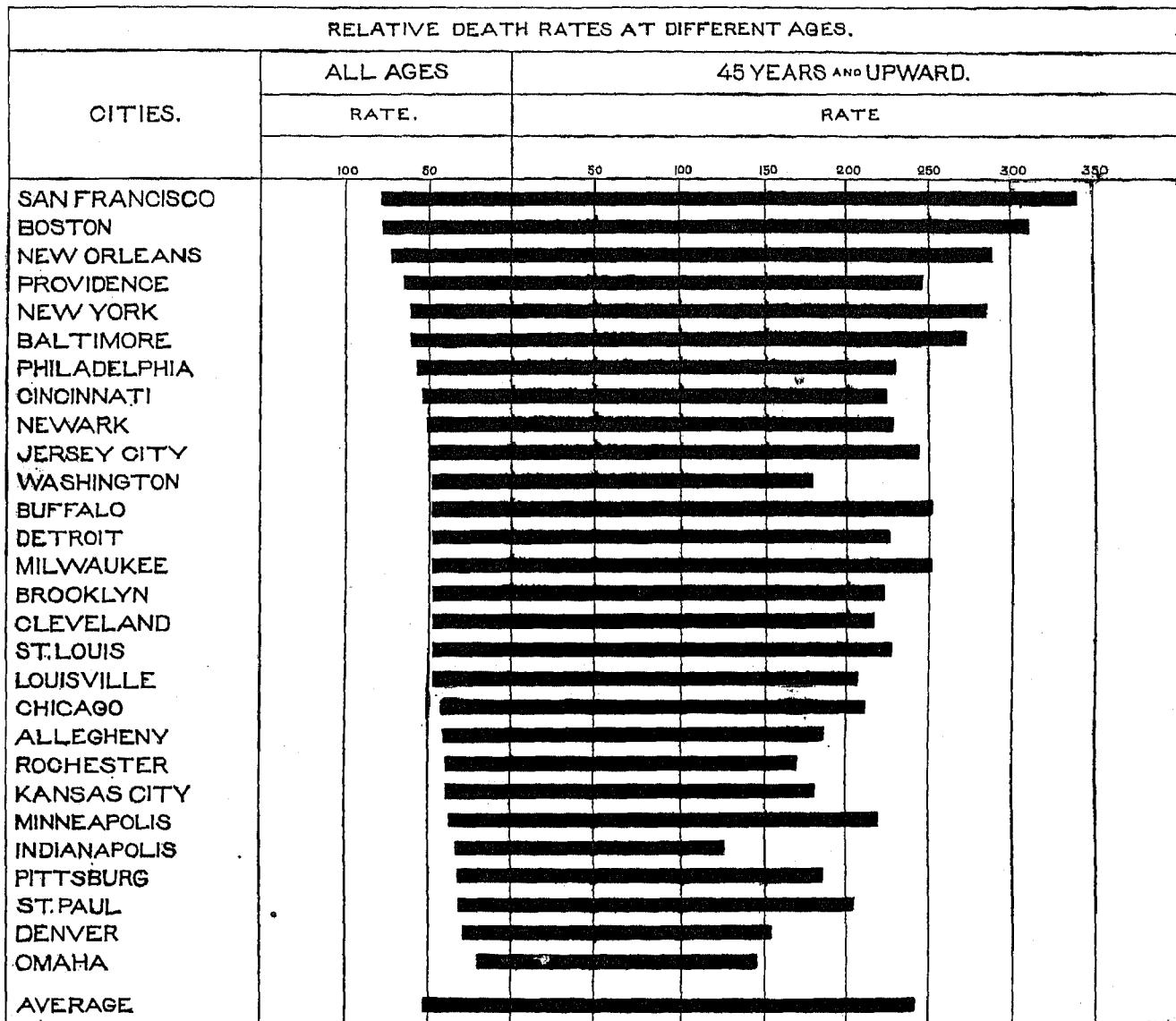
The death rate from these causes among those from 15 to 45 years of age was unusually great in New Orleans (34.57), in Boston (34.40), in San Francisco (29.73), in New York (29.60), and in Washington and in Cleveland (27.55), the average death rate from these causes being, for this age group, 23.99.

The death rate from these causes is largely determined by the proportion of children and of those 45 years of age and over, especially females, in the population of a given city, but race also has its influences.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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The following diagram shows for the 28 cities the relative death rates from cancer and tumor during the census year in the total population and in those 45 years of age and upward:



## VITAL AND SOCIAL STATISTICS.

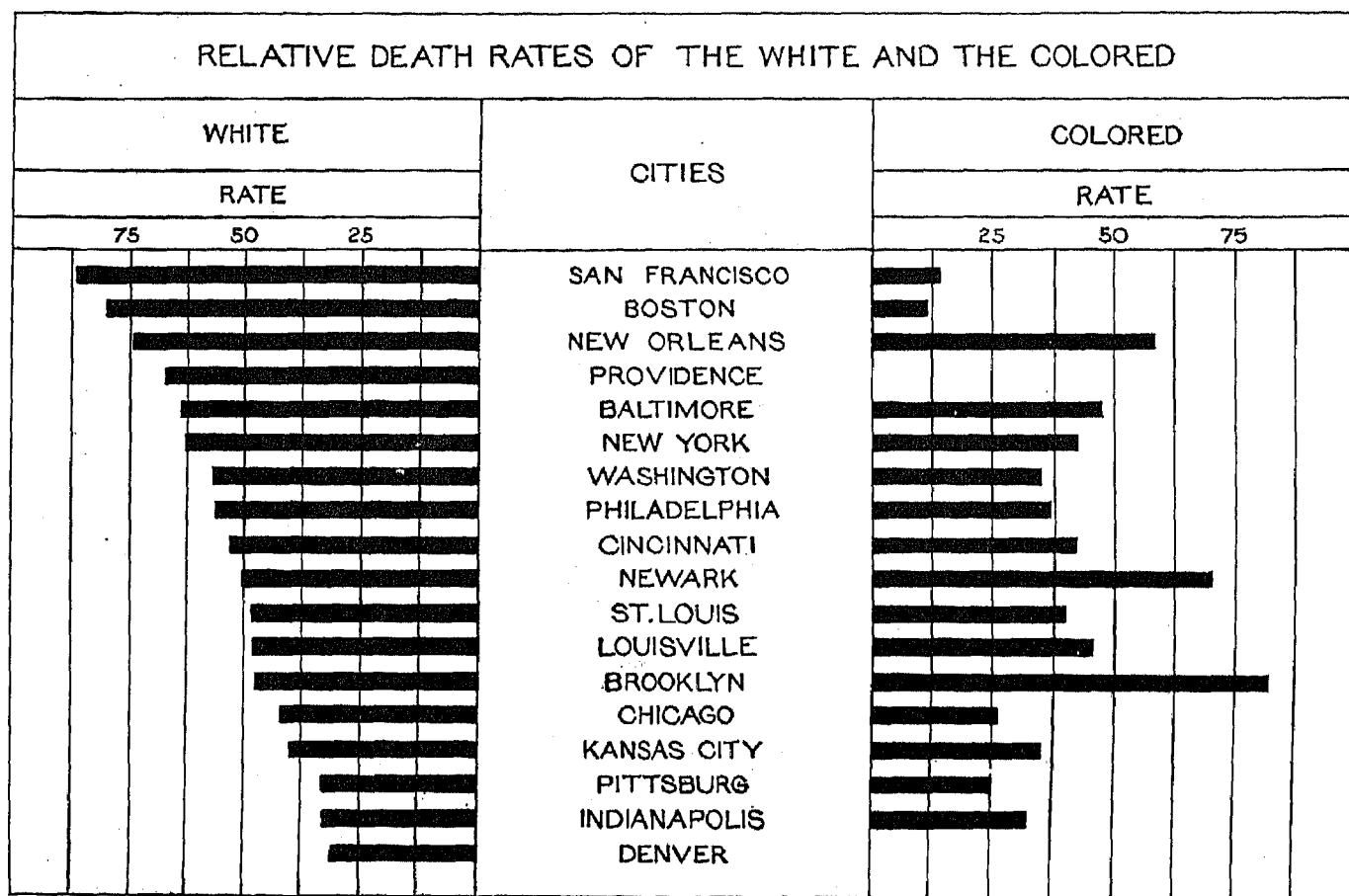
The following table shows for the 28 cities the death rates from cancer and tumor during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	52.99	53.60	31.12	52.32	17.41	99.23	41.01	(Of mothers.)		
								39.33	65.40	59.83
Boston .....	79.38	80.70	60.73	106.09	18.99	116.80	11.64	92.05	87.72	60.63
Brooklyn .....	48.24	47.77	26.56	44.93	13.46	91.28	82.22	39.84	51.43	53.20
Buffalo .....	49.67	49.90	26.62	40.53	19.35	93.05	-----	34.14	76.50	59.57
Cincinnati .....	53.22	53.64	23.84	34.85	17.22	143.04	42.79	14.60	62.00	53.83
Cleveland .....	48.21	47.23	26.64	51.89	11.03	81.50	131.80	42.65	28.00	53.62
Detroit .....	48.57	48.41	23.87	48.93	10.18	85.24	57.90	27.76	33.11	47.80
Indianapolis .....	33.20	33.24	20.88	35.09	8.05	69.21	32.77	20.54	44.32	20.10
Jersey city .....	50.31	50.38	33.46	60.16	16.66	84.62	44.70	45.28	45.98	61.67
Milwaukee .....	48.42	48.04	20.09	33.04	16.46	91.78	214.13	20.15	62.96	54.53
Minneapolis .....	38.85	39.17	20.41	27.81	12.26	71.06	-----	17.67	31.90	00.13
Newark .....	51.15	50.69	31.11	50.20	15.06	93.87	70.24	32.36	71.71	50.53
New York .....	62.89	63.24	30.96	53.98	20.27	106.44	42.84	45.31	71.87	75.76
Pittsburg .....	33.11	33.38	17.73	23.11	13.60	66.93	25.14	18.98	60.44	30.63
Providence .....	65.03	67.14	58.04	84.78	25.31	87.03	-----	80.52	53.46	04.03
Rochester .....	40.33	40.50	27.78	50.09	11.18	70.47	-----	22.93	41.80	33.08
San Francisco .....	70.93	86.81	43.72	65.98	30.81	158.69	14.13	1.33	79.88	07.47
St. Paul .....	33.04	32.67	15.28	25.80	8.41	58.40	65.62	19.50	87.25	58.11
Washington .....	49.91	56.89	43.33	45.66	34.64	156.61	35.67	43.17	82.59	02.12
								(Of persons.)		
Allegheny .....	41.79	42.82	30.00	-----	-----	80.47	-----	30.00	162.54	82.81
Baltimore .....	61.92	64.55	45.55	-----	-----	147.28	47.55	45.55	171.78	164.54
Chicago .....	42.10	42.80	20.30	-----	-----	73.39	26.93	20.30	89.06	85.69
Denver .....	29.99	31.18	29.41	-----	-----	36.82	-----	29.41	71.16	67.22
Kansas city .....	39.93	40.40	31.57	-----	-----	82.38	35.98	31.57	129.70	114.59
Louisville .....	47.79	48.32	25.69	-----	-----	153.44	45.34	25.69	266.01	120.63
New Orleans .....	70.65	74.98	35.55	-----	-----	241.87	58.77	35.55	227.10	305.16
Omaha .....	20.65	21.86	19.83	-----	-----	25.77	-----	19.83	24.59	48.72
Philadelphia .....	55.88	56.63	39.82	-----	-----	102.89	37.15	39.82	122.59	129.03
St. Louis .....	48.03	48.50	16.77	-----	-----	134.37	40.64	16.77	181.29	121.21

This table shows that the death rate from cancer and tumor was greater among the whites (53.60) than among the colored (41.01), that it was much greater among the foreign born whites (99.23) than among the native whites (31.12), and much greater among the whites of whom both parents were native (52.32) than among those having one or both parents foreign born (17.41). It was greater among those whose mothers were born in Ireland (65.40) than among those whose mothers were born in Germany (59.83) or among those whose mothers were born in the United States (39.33).

Part of these differences is due to differences in the distribution of the population of these groups, but the colored are decidedly less susceptible to this class of diseases than the whites.

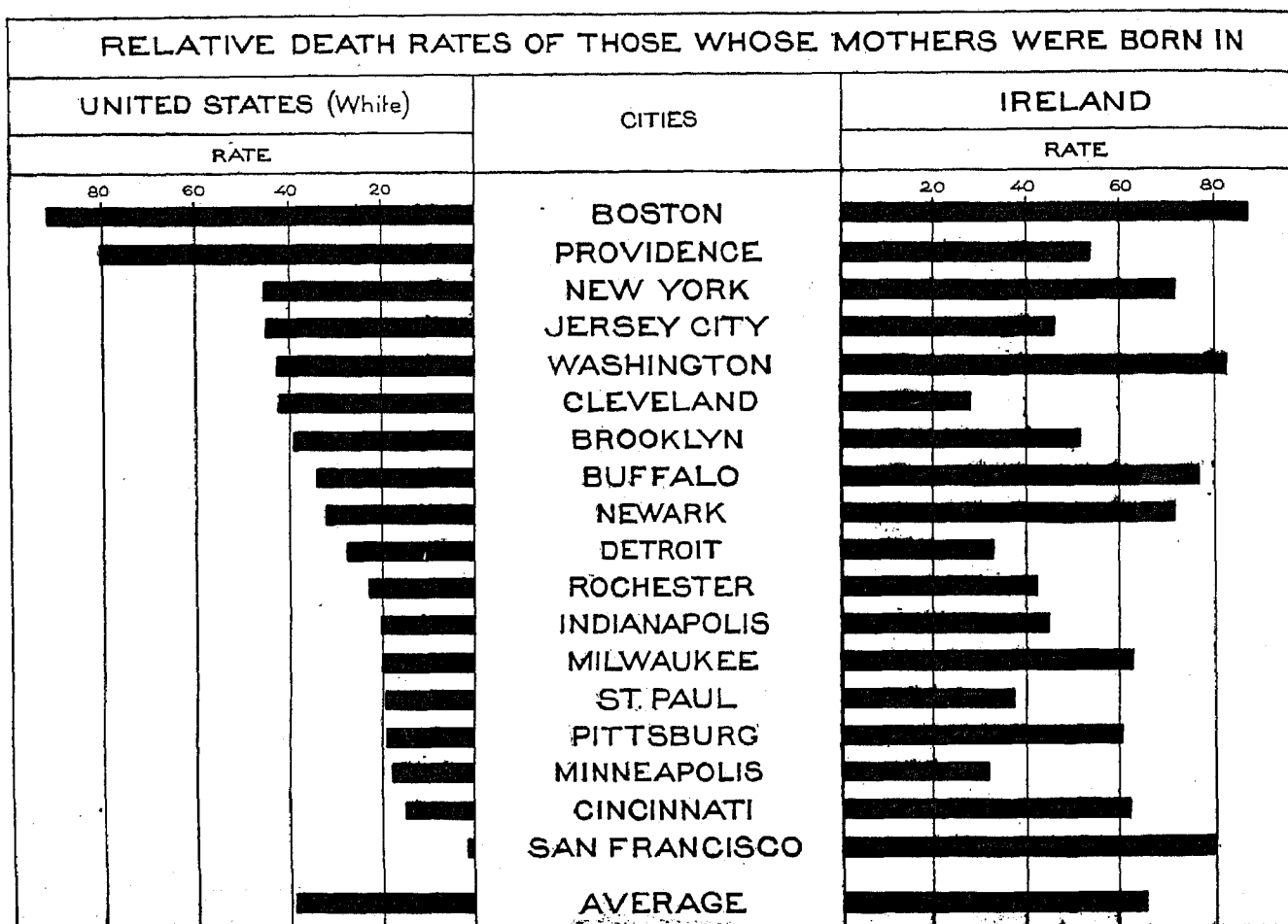
The following diagram shows for 18 cities the relative death rates from cancer and tumor among the white and among the colored, the cities being arranged in the order of magnitude of the ratio of the former:



The excessive death rate of the colored from cancer and tumor in some cities as compared with that of the whites, shown by the above diagram, was mainly due either to the small number of colored in certain cities or to the fact that the colored were mainly of the ages most liable to cancer.

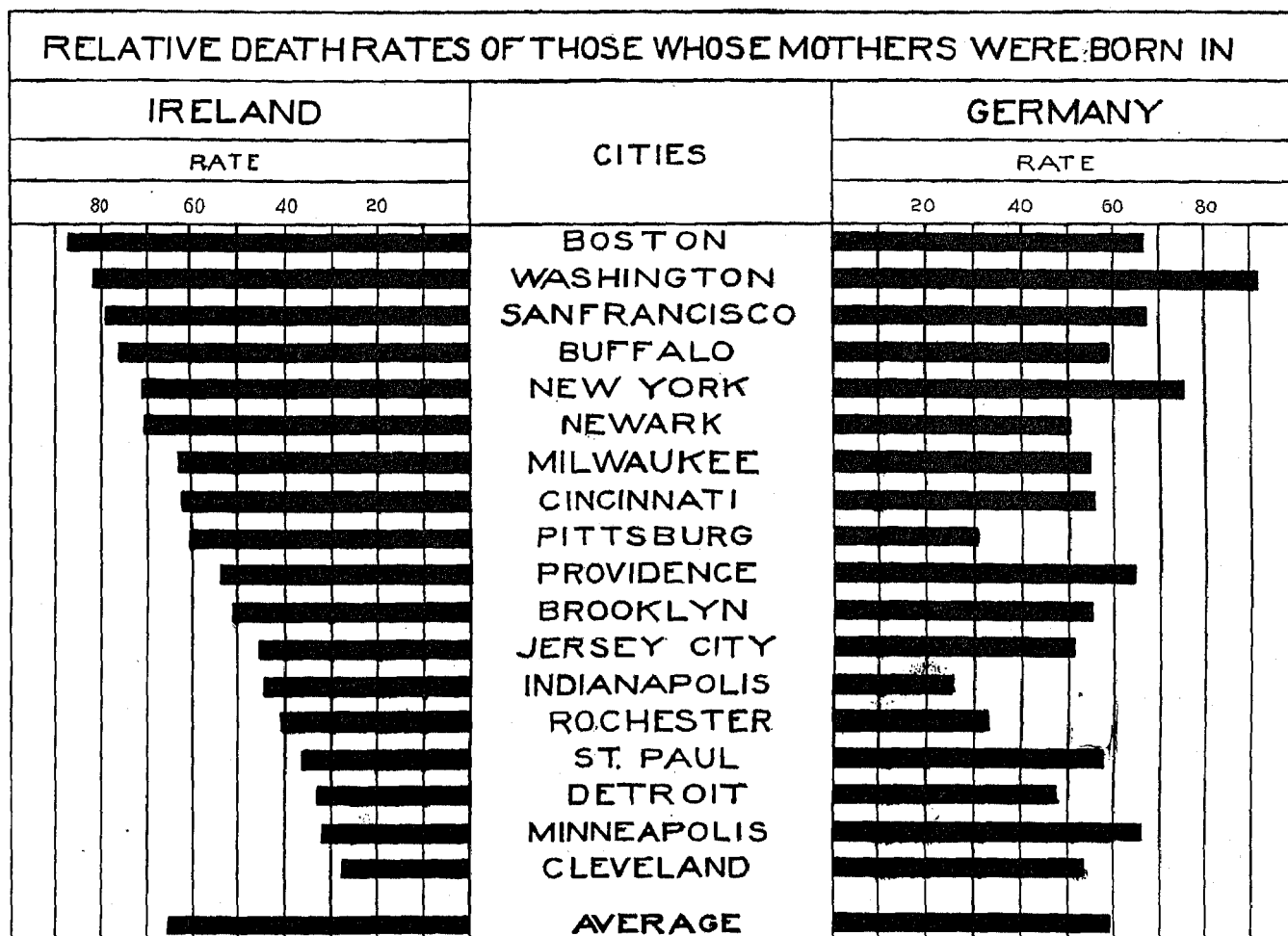
## VITAL AND SOCIAL STATISTICS.

The following diagram shows for 18 cities the relative death rates from cancer and tumor among those whose mothers were born in the United States and those whose mothers were born in Ireland, the cities being arranged in the order of magnitude of the ratio of the former:



The exceptions shown by the above diagram to the general rule that the death rate from cancer and tumor is greater among the children of Irish mothers than among those of native mothers, are probably due to unusual differences in the sex and age distribution of the two classes of population in Providence, Boston, and Cleveland.

The following diagram shows for 18 cities the relative death rates from cancer and tumor among those whose mothers were born in Ireland and those whose mothers were born in Germany:



#### HEART DISEASE AND DROPSY.

The total number of deaths in the 28 cities from heart disease and dropsy during the census year was 11,849, giving an average annual death rate of 122.18 per 100,000, ranging from 197.33 in San Francisco, 192.94 in New Orleans, and 170.35 in Boston to 55.53 in Omaha, 59.49 in Minneapolis, and 74.35 in St. Paul.

The following table shows for the 28 cities and for their aggregate the death rates from heart disease and dropsy during the census year, in the aggregate and for each of 2 age groups, per 100,000 of corresponding population, the cities being arranged in the order of magnitude of the aggregate death rates:

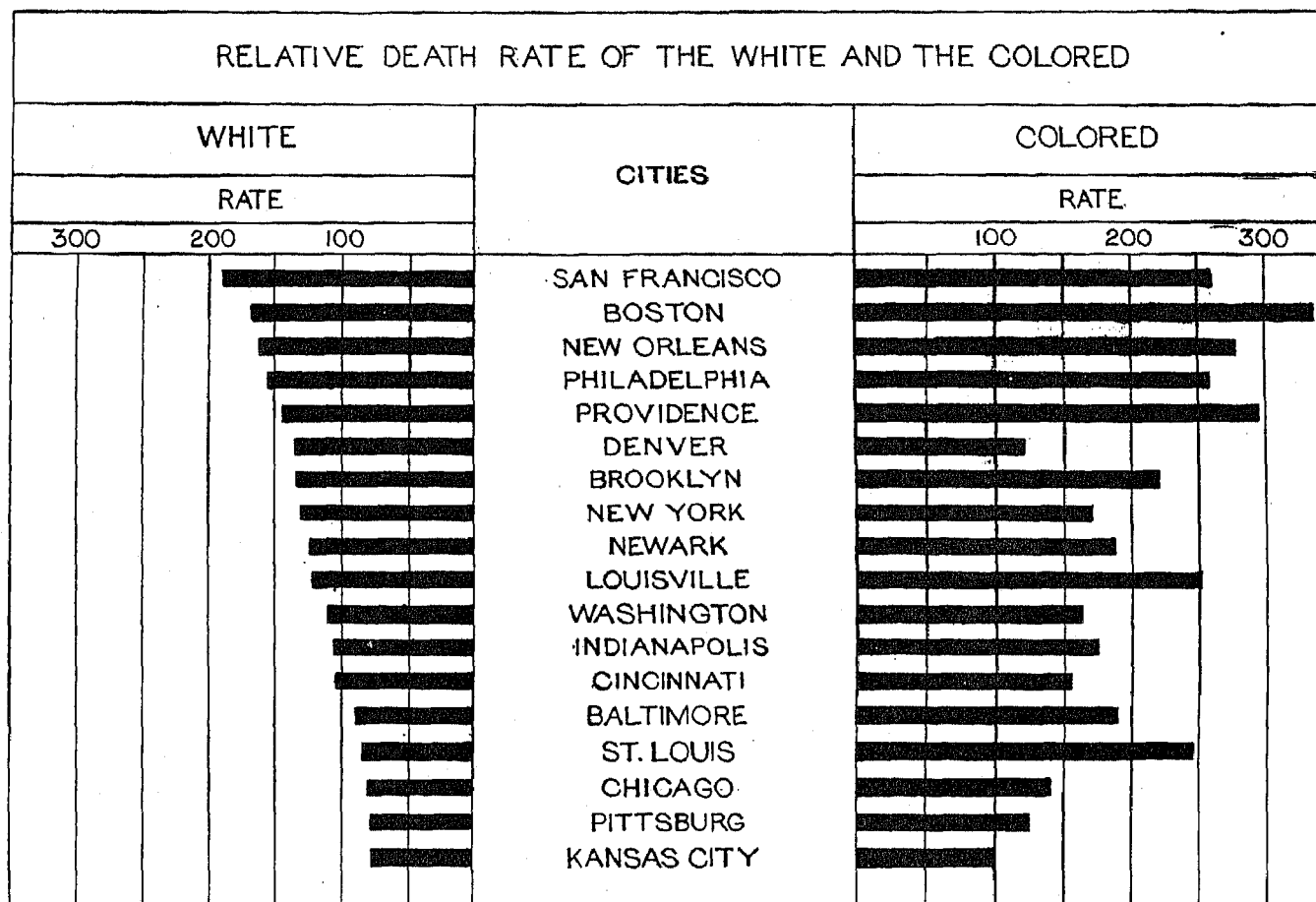
CITIES.	All ages.	15 to 45 years.	45 years and over.	CITIES.	All ages.	15 to 45 years.	45 years and over.
Total .....	122.18	66.72	461.84	Detroit .....	114.63	62.91	451.65
San Francisco .....	197.33	108.08	675.28	Indianapolis .....	111.92	63.28	354.30
New Orleans .....	192.94	91.90	782.62	Cincinnati .....	105.76	58.15	402.00
Boston .....	170.35	85.18	589.63	Milwaukee .....	105.15	47.29	500.48
Philadelphia .....	161.04	75.35	540.72	Baltimore .....	104.96	59.61	383.84
Providence .....	149.83	54.86	545.45	Cleveland .....	97.95	53.00	402.85
Louisville .....	142.74	72.60	556.86	St. Louis .....	96.29	61.60	356.37
Brooklyn .....	136.05	75.95	492.80	Allegheny .....	88.33	28.90	430.68
Denver .....	134.94	94.22	391.19	Buffalo .....	88.01	52.62	360.72
Jersey city .....	130.06	74.85	454.03	Chicago .....	81.28	49.42	324.27
Rochester .....	129.95	54.47	533.16	Pittsburg .....	80.46	45.12	329.35
New York .....	128.82	79.94	470.30	Kansas city .....	79.87	51.70	290.48
Washington .....	126.74	58.83	431.20	St. Paul .....	74.35	50.03	275.13
Newark .....	125.89	59.08	450.61	Minneapolis .....	59.49	43.26	249.93
				Omaha .....	55.53	38.97	235.93

The following table shows for the 28 cities the death rates from heart disease and dropsy during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total.....	122.18	117.76	83.73	108.75	66.23	186.84	209.30	81.48	169.20	114.94
(Of mothers.)										
Boston.....	170.35	167.09	131.35	173.13	92.00	231.69	337.00	146.48	208.42	133.26
Brooklyn.....	136.05	134.90	85.66	109.63	68.57	235.88	219.26	93.89	191.47	123.23
Buffalo.....	83.01	87.62	57.47	82.83	44.22	143.50	171.09	62.82	140.81	80.43
Cincinnati.....	105.76	103.78	57.97	68.46	51.06	241.20	154.06	35.05	135.81	110.13
Cleveland.....	97.95	95.23	62.58	94.05	43.12	149.60	320.49	81.18	139.98	91.03
Detroit.....	114.63	112.14	71.62	97.85	57.29	172.95	260.57	51.83	160.83	104.43
Indianapolis.....	111.92	105.94	95.32	117.55	44.29	166.10	174.79	58.19	77.55	90.20
Jersey city.....	130.06	130.00	85.51	115.60	66.04	220.01	194.11	104.33	155.19	100.43
Milwaukee.....	105.15	105.39	49.01	80.77	40.11	193.61	97.79	87.79	143.00	114.34
Minneapolis.....	59.49	58.15	51.52	66.75	34.74	69.40	221.57	44.18	87.72	60.13
Newark.....	125.39	123.90	85.95	120.11	57.24	207.60	187.31	97.09	146.68	131.03
New York.....	128.82	128.09	83.97	107.21	73.18	187.13	171.38	93.10	167.02	130.79
Pittsburg.....	80.48	78.90	58.41	51.99	68.44	123.03	125.68	41.52	132.08	68.53
Providence.....	149.83	145.20	129.73	184.03	63.26	179.03	296.22	180.22	144.10	100.21
Rochester.....	129.95	130.52	96.17	130.23	70.82	211.41	261.47	47.04	151.53	111.01
San Francisco.....	197.83	190.62	110.49	128.74	99.99	324.29	261.47	3.98	180.42	140.90
St. Paul.....	74.35	73.69	59.83	93.52	37.89	94.20	131.23	78.00	105.54	77.43
Washington.....	126.74	109.25	96.20	88.53	124.70	205.22	162.40	78.25	171.07	161.23
(Of persons.)										
Allegheny.....	88.33	87.58	57.39	.....	.....	176.27	118.67	57.39	283.97	105.74
Baltimore.....	104.96	89.88	64.64	.....	.....	189.78	187.23	64.64	261.41	201.43
Chicago.....	81.23	80.46	55.56	.....	.....	115.65	141.40	55.56	212.77	117.36
Denver.....	134.34	135.42	140.06	.....	.....	118.65	122.82	140.06	118.00	130.23
Kansas city.....	78.37	77.43	60.09	.....	.....	159.91	100.76	60.09	194.55	212.80
Louisville.....	142.74	110.28	77.07	.....	.....	315.40	251.12	77.07	413.01	208.60
New Orleans.....	192.94	161.80	80.35	.....	.....	504.38	278.37	80.35	631.07	520.37
Omaha.....	55.53	56.70	51.55	.....	.....	71.59	21.47	51.55	98.35	72.47
Philadelphia.....	161.64	157.10	134.40	.....	.....	219.57	257.59	134.40	261.41	239.43
St. Louis.....	96.29	86.65	54.82	.....	.....	172.76	247.54	54.82	222.50	169.64

This table shows that the death rate from heart disease and dropsy was much greater among the colored (209.30) than among the whites (117.76), and that it was much greater among the foreign born whites (186.84) than among the native whites (83.73), which is largely due to the effect of the much greater proportion of persons of advanced age, especially liable to these diseases, among the foreign born whites. It was much greater among the native whites of whom both parents were native born than among those having one or both parents foreign born. It was a little more than twice as great among those whose mothers were born in Ireland (169.20) than it was among those whose mothers were born in the United States (81.48), and was decidedly greater than that of those whose mothers were born in Germany (114.94).

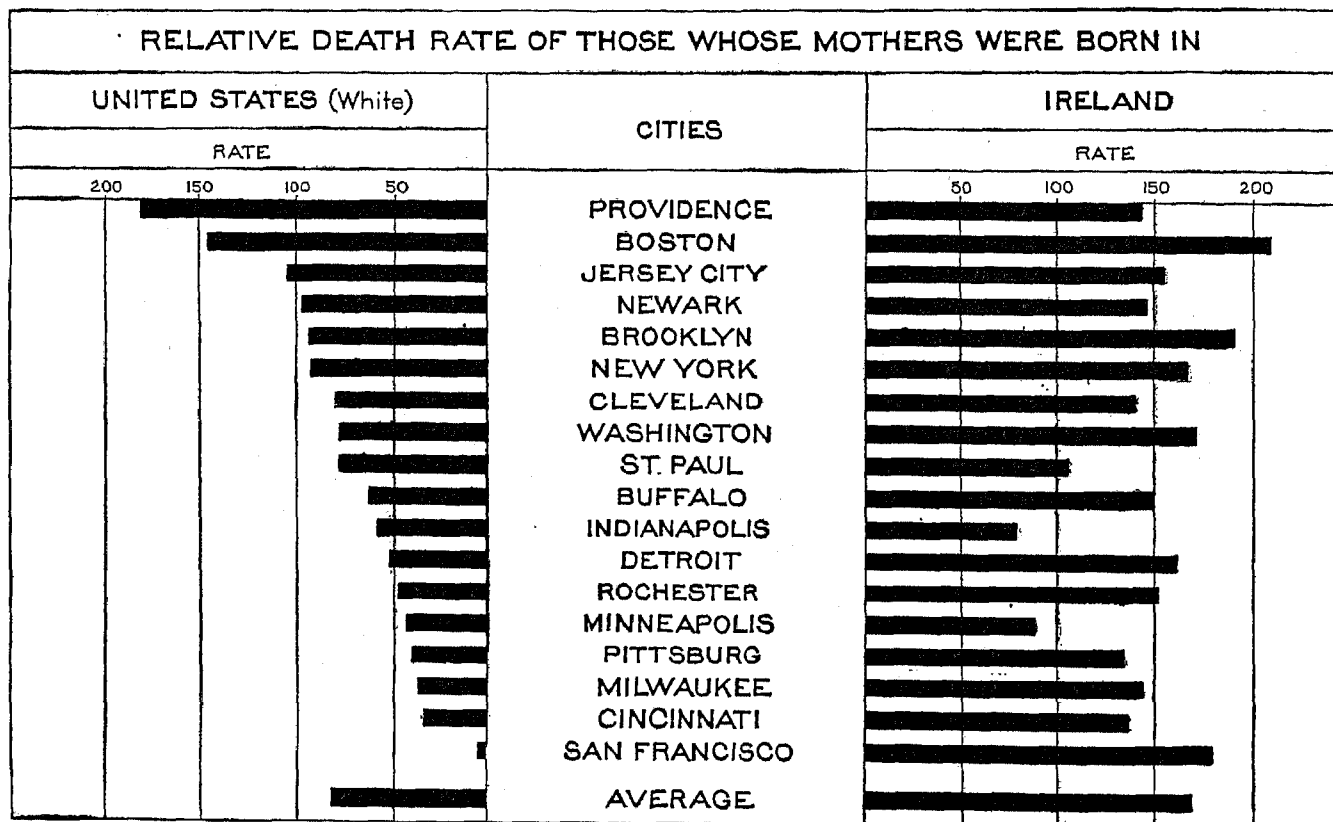
The following diagram shows for 18 cities the relative death rates from heart disease and dropsy during the census year among the white and among the colored, the cities being arranged in the order of magnitude of the ratio of the former:



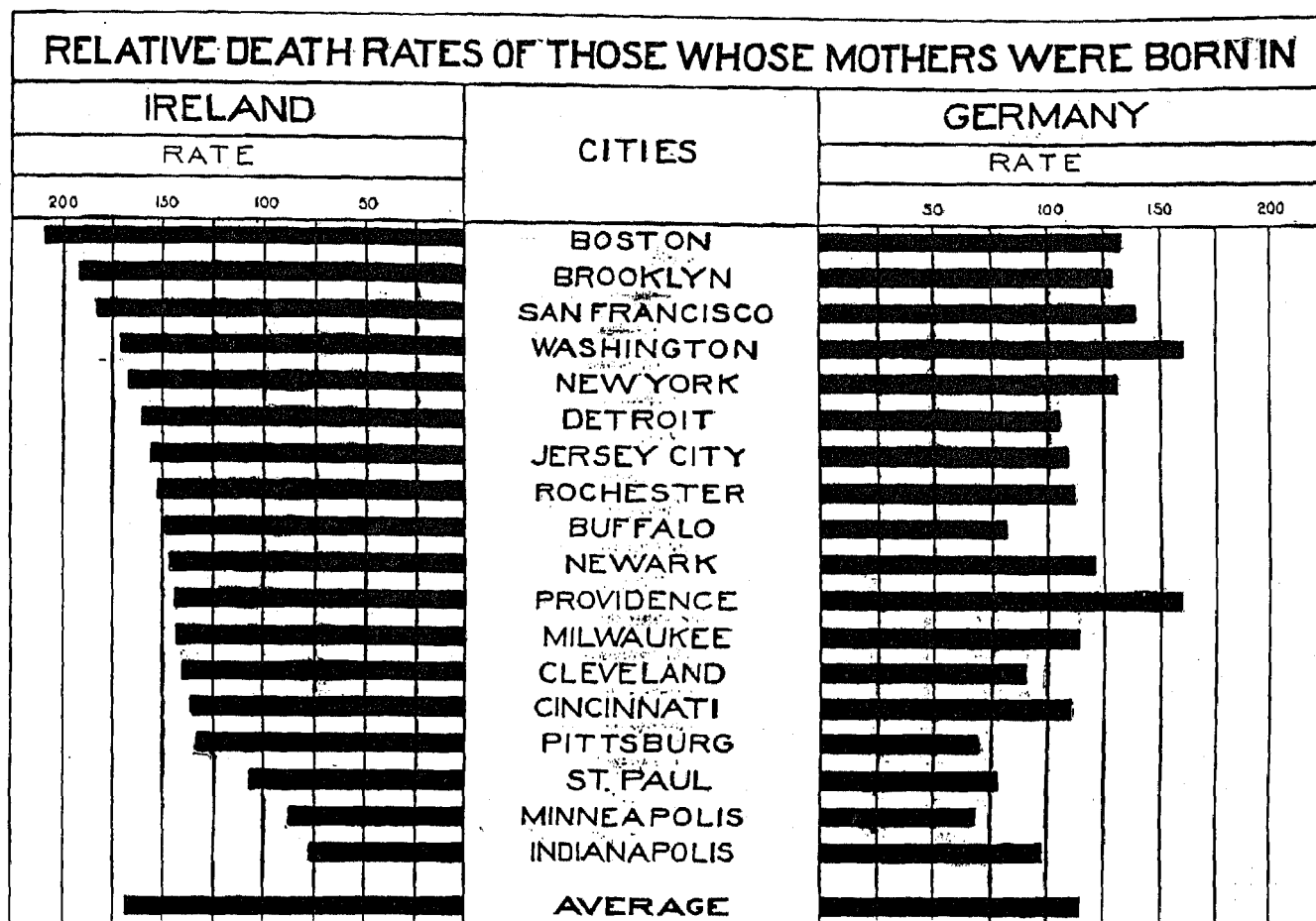


## VITAL AND SOCIAL STATISTICS.

The following diagram shows for 18 cities the relative death rates from heart disease and dropsy of those whose mothers were born in the United States and of those whose mothers were born in Ireland, the cities being arranged in the order of magnitude of the ratio of the former:



The following diagram shows for 18 cities the relative death rates from heart disease and dropsy among those whose mothers were born in Ireland and those whose mothers were born in Germany, the cities being arranged in the order of magnitude of the ratio of the former:



## CHILDBIRTH AND PUERPERAL DISEASES.

The total number of deaths in the 28 cities from childbirth and puerperal diseases during the census year was 1,706, giving an annual average death rate of 17.59 per 100,000 of population, ranging from 31.86 in Denver, 24.89 in Minneapolis, and 23.56 in New York to 6.69 in Philadelphia, 9.71 in Rochester, and 10.03 in San Francisco.

The following table shows for the 28 cities the death rates from childbirth and puerperal diseases during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	17.59	17.48	12.83	11.54	14.64	26.92	19.80	(Of mothers.)		
								9.27	22.10	10.54
Boston .....	13.38	13.64	9.18	7.37	10.85	21.70	.....	0.72	15.55	10.04
Brooklyn .....	17.61	17.73	13.65	11.68	15.06	26.08	9.14	12.25	23.93	18.40
Buffalo .....	13.69	13.75	9.08	14.10	7.37	21.30	.....	9.56	12.75	14.63
Cincinnati .....	14.82	14.37	11.69	14.94	9.73	22.44	25.68	4.87	8.80	12.50
Cleveland .....	16.07	16.26	9.29	9.73	9.02	27.86	.....	8.26	24.89	18.70
Detroit .....	22.83	23.22	13.17	6.99	16.55	38.30	.....	3.70	28.38	24.60
Indianapolis .....	14.23	13.50	15.89	17.54	12.08	.....	21.85	15.40	22.16	.....
Jersey city .....	12.27	12.44	6.51	.....	10.60	24.45	.....	.....	21.08	12.16
Milwaukee .....	18.10	18.14	11.25	14.69	10.29	28.92	.....	5.04	17.99	17.50
Minneapolis .....	24.89	25.09	19.44	20.40	18.39	34.70	.....	17.07	.....	36.07
Newark .....	23.10	23.09	21.28	19.72	22.60	27.08	23.41	16.95	26.08	10.84
New York .....	23.56	23.50	16.42	11.83	18.55	32.97	27.26	10.94	28.80	27.49
Pittsburg .....	22.63	21.68	17.78	15.89	19.26	30.07	50.27	15.42	30.22	21.64
Providence .....	14.38	14.83	14.79	10.34	20.24	14.92	.....	9.59	20.02	33.04
Rochester .....	9.71	9.75	6.41	.....	11.18	17.62	.....	.....	5.23	10.17
San Francisco .....	10.03	10.34	10.04	14.48	7.47	10.84	7.07	.....	2.75	9.03
St. Paul .....	20.28	20.51	11.46	6.45	14.72	33.91	.....	5.57	24.83	10.14
Washington .....	19.53	14.87	12.48	8.39	27.71	32.40	20.06	8.09	35.39	15.36
(Of persons.)										
Allegheny .....	12.35	12.65	6.52	.....	.....	30.65	.....	0.52	18.06	30.11
Baltimore .....	17.95	17.16	17.08	.....	.....	17.50	22.29	17.08	.....	22.11
Chicago .....	20.40	20.37	10.39	.....	.....	34.47	26.93	10.39	19.99	39.12
Denver .....	31.86	33.12	26.85	.....	.....	53.19	.....	26.85	47.44	18.01
Kansas city .....	17.33	17.67	13.24	.....	.....	38.77	14.39	13.24	.....	65.48
Louisville .....	22.96	21.14	18.35	.....	.....	34.10	31.39	18.35	.....	40.07
New Orleans .....	14.87	15.22	17.42	.....	.....	5.90	13.92	17.42	.....	8.83
Omaha .....	18.51	19.15	12.80	.....	.....	37.22	.....	12.89	.....	24.10
Philadelphia .....	6.69	6.76	6.09	.....	.....	8.57	4.95	6.09	9.92	6.67
St. Louis .....	20.81	19.78	17.09	.....	.....	27.05	36.95	17.09	20.00	23.79

It will be seen from this table that the death rate from these causes was greater among the colored (19.86) than among the whites (17.48), among the foreign born (26.92) than among the natives (12.83), among the children of Irish mothers (22.19) than among the children of German mothers (19.54) or those whose mothers were born in the United States (9.27).

These ratios to population are given to permit of comparisons with ratios for other cities and countries calculated in like manner, but little useful information is to be gained from comparisons of the number of deaths from childbirth and puerperal diseases with the total population, the ratios which are really valuable being derived from comparing the number of deaths from childbirth and puerperal diseases with the number of women of childbearing ages.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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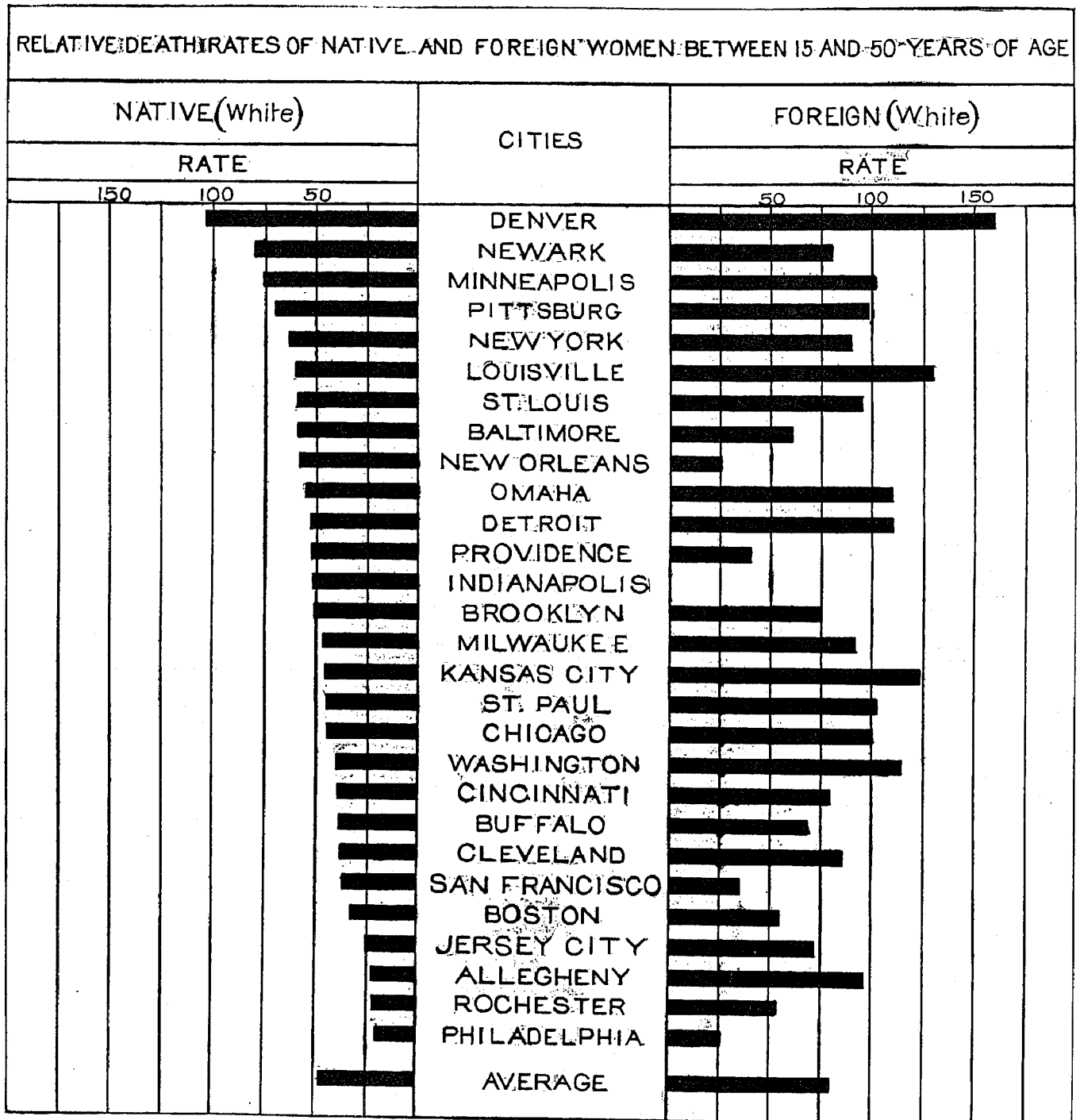
The following table shows for the 28 cities and for their aggregate the death rates from childbirth and puerperal diseases during the census year, by color and general nativity, per 100,000 women between 15 and 50 years of age, the cities being arranged in the order of magnitude of the aggregate death rates from these causes:

		DEATH RATES PER 100,000 WOMEN BETWEEN 15 AND 50 YEARS OF AGE.					
CITIES.	Aggregate.	White.					Colored.
		Total.	Native born.			Foreign born.	
			Total.	Both parents native.	One or both parents foreign.		
Total .....	60.63	60.49	48.21	44.37	54.75	80.28	63.25
Denver .....	115.64	119.60	103.14			161.13	
Minneapolis .....	86.99	87.07	76.10	77.70	74.43	102.35	
Pittsburg .....	84.91	81.20	70.94	63.46	70.70	99.72	103.99
Newark .....	80.53	80.86	80.30	75.18	84.53	81.85	69.01
Detroit .....	79.88	81.39	53.25	26.13	70.03	111.03	
Louisville .....	77.40	72.83	61.88			130.03	96.16
New York .....	77.35	77.39	63.49	45.76	71.73	90.60	75.86
St. Louis .....	73.94	70.88	61.70			95.05	116.08
Chicago .....	73.82	73.60	45.11			100.03	88.24
Omaha .....	71.83	74.45	55.83			111.00	
St. Paul .....	71.80	72.09	45.82	25.25	59.71	102.80	
Milwaukee .....	67.06	67.81	47.00	72.97	41.15	92.83	
Washington .....	63.07	50.01	41.70	28.85	83.55	114.00	80.77
Baltimore .....	60.32	59.73	59.02			90.45	62.68
Brooklyn .....	60.05	60.59	51.37	45.75	55.12	75.03	26.84
Kansas city .....	59.17	61.42	46.82			124.51	42.72
Cleveland .....	58.82	59.58	38.08	30.16	39.48	86.79	
New Orleans .....	51.08	53.43	58.68			25.22	44.95
Cincinnati .....	50.88	49.66	39.88	05.12	29.37	80.51	76.51
Buffalo .....	50.52	50.70	38.39	67.20	20.87	69.77	
Indianapolis .....	47.28	44.97	52.59	59.23	38.28		71.00
Providence .....	46.04	48.17	53.01	37.44	71.03	40.22	
Allegheny .....	43.43	44.49	23.84			97.02	
Jersey city .....	43.31	44.01	25.28		40.40	73.20	
Boston .....	42.74	43.58	33.78	26.19	41.26	55.99	
San Francisco .....	38.51	36.85	37.41	55.78	27.30	36.01	104.38
Rochester .....	32.81	32.98	22.50		36.12	54.02	
Philadelphia .....	22.40	22.80	21.50			25.84	14.06

The above table shows that the death rate from childbirth and puerperal diseases per 100,000 women between 15 and 50 years of age was 60.63, being a little greater for the colored (63.25) than for the whites (60.49), greater for the foreign born (80.28) than for the natives (48.21), and greater for those natives of whom one or both parents were foreign born (54.75) than for those natives both of whose parents were also native (44.37).

## VITAL AND SOCIAL STATISTICS.

The following diagram shows for the 28 cities the relative death rates from childbirth and puerperal diseases per 100,000 white women between 15 and 50 years of age, with distinction of the native and of the foreign born, the cities being arranged in the order of magnitude of the ratio of the former:



## CITIES OF 100,000 INHABITANTS AND UPWARD.

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## DISEASES OF THE LIVER.

The total number of deaths in the 28 cities from diseases of the liver during the census year was 2,665, giving an average annual death rate of 27.48 per 100,000, ranging from 54.95 in New Orleans, 46.49 in San Francisco, and 39.18 in St. Louis to 3.56 in Omaha, 9.76 in St. Paul, and 11.30 in Kansas city.

The following table shows for the 28 cities and for their aggregate the death rates from diseases of the liver during the census year, in the aggregate and for each of 3 age groups, per 100,000 of corresponding population:

CITIES.	All ages.	Under 15 years.	15 to 45 years.	45 years and over.	CITIES.	All ages.	Under 15 years.	15 to 45 years.	45 years and over.
Total .....	27.48	11.02	14.67	100.52	Rochester .....	23.15	9.83	11.47	82.36
New Orleans .....	54.95	5.10	45.53	168.67	Boston .....	22.07	15.07	11.85	62.88
San Francisco .....	46.49	26.64	25.06	142.07	Indianapolis .....	21.81	16.82	8.79	70.86
St. Louis .....	39.18	11.94	24.05	145.66	Denver .....	21.55	7.91	13.46	92.65
Brooklyn .....	35.10	10.10	18.04	133.47	Cleveland .....	21.43	5.79	7.44	101.96
Newark .....	34.10	24.54	15.04	104.72	Chicago .....	21.00	14.07	8.74	86.70
Jersey city .....	33.74	13.58	15.20	135.82	Baltimore .....	20.72	8.27	12.61	64.95
New York .....	31.54	8.27	19.27	116.77	Allegheny .....	19.95	14.84	12.04	56.18
Pittsburg .....	30.59	15.19	13.46	134.18	Buffalo .....	19.95	3.49	10.68	89.52
Providence .....	30.27	14.68	12.66	97.13	Milwaukee .....	19.56	9.30	10.06	78.31
Cincinnati .....	28.29	13.17	13.57	100.99	Detroit .....	17.49	11.72	9.53	55.68
Philadelphia .....	27.22	10.62	13.06	91.66	Minneapolis .....	13.06	2.15	8.24	69.93
Louisville .....	26.69	2.10	12.00	106.24	Kansas city .....	11.30	5.68	6.30	46.48
Washington .....	24.31	13.92	12.61	70.76	St. Paul .....	9.76	17.07	1.32	31.99
					Omaha .....	3.56	2.33	3.54	8.14

It will be seen from this table that the death rate from diseases of the liver is much the greatest in persons 45 years of age and over, and that it is somewhat higher in the age group 15 to 45, namely, 14.67, than in those who are under 15 years of age, 11.02. The death rate from these causes in those under 15 years of age was remarkably great in San Francisco (26.64) and in Newark (24.54). The death rate in the age group from 15 to 45 was excessive in New Orleans, being 45.53, as against 14.67 for the average.

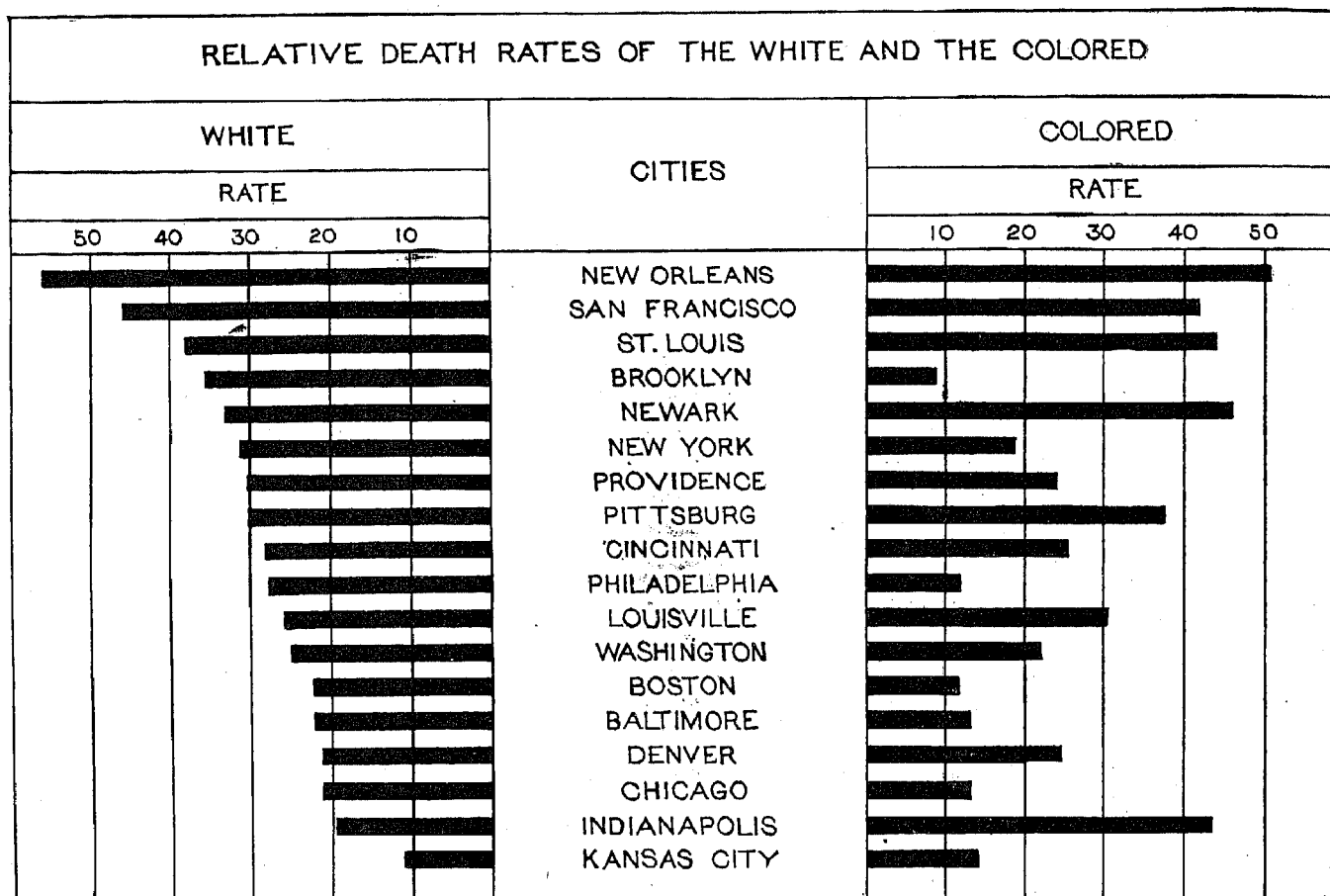
The following table shows for the 28 cities the death rates from diseases of the liver during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	27.48	27.50	16.85	20.77	14.03	49.10	27.12	(Of mothers.)		
								16.07	41.80	30.23
Boston .....	22.07	22.28	18.71	17.68	19.67	28.72	11.64	19.49	31.73	9.52
Brooklyn .....	35.10	35.45	19.08	20.51	18.78	69.04	9.14	22.54	57.54	38.84
Buffalo .....	19.95	19.05	8.47	14.10	5.53	40.36	85.54	9.55	19.12	27.17
Cincinnati .....	28.29	28.40	14.49	24.89	8.24	70.12	25.08	12.66	38.38	29.89
Cleveland .....	21.43	20.52	9.29	16.22	5.01	39.20	98.85	13.76	18.66	29.93
Detroit .....	17.49	17.78	13.99	13.08	14.00	23.47	-----	7.40	9.46	20.31
Indianapolis .....	21.81	19.73	15.89	17.54	12.08	41.53	43.70	5.13	-----	31.33
Jersey city .....	33.74	34.21	16.73	19.25	15.15	69.58	-----	17.72	40.24	51.67
Milwaukee .....	19.56	19.61	10.45	11.01	10.29	33.95	-----	10.08	53.96	16.71
Minneapolis .....	13.96	14.08	8.75	14.83	2.04	23.13	-----	10.60	23.92	12.02
Newark .....	34.10	33.79	20.46	16.13	24.10	63.18	46.83	10.79	45.63	32.52
New York .....	31.54	31.75	16.65	23.29	13.57	51.96	19.47	20.59	43.33	32.20
Pittsburg .....	30.59	30.35	19.68	20.22	16.26	53.31	37.70	16.61	32.24	46.88
Providence .....	30.27	30.45	25.03	33.08	15.18	42.27	24.69	32.59	27.89	-----
Rochester .....	23.15	23.25	12.82	5.01	18.64	47.82	-----	2.08	36.58	22.89
San Francisco .....	46.49	46.92	30.13	32.18	28.94	74.91	42.40	-----	40.83	23.31
St. Paul .....	9.76	9.88	12.73	12.90	12.62	5.65	-----	11.14	18.62	6.46
Washington .....	24.31	25.21	18.86	18.64	17.32	75.61	22.46	18.89	20.50	69.00
								(Of persons.)		
Allegheny .....	19.95	19.46	13.04	-----	-----	38.32	39.56	13.04	18.06	45.17
Baltimore .....	20.72	22.06	16.75	-----	-----	45.21	13.37	16.75	59.75	46.67
Chicago .....	21.00	21.11	14.48	-----	-----	30.47	13.47	14.48	45.70	40.98
Denver .....	21.55	21.43	20.46	-----	-----	24.55	24.56	20.46	-----	37.22
Kansas city .....	11.30	10.94	8.15	-----	-----	24.23	14.39	8.15	64.85	32.74
Louisville .....	26.69	25.67	10.09	-----	-----	98.03	31.39	10.09	133.00	99.33
New Orleans .....	54.95	56.38	32.06	-----	-----	159.28	51.03	32.06	138.84	202.86
Omaha .....	3.56	3.68	3.97	-----	-----	2.86	-----	1.97	24.59	-----
Philadelphia .....	27.22	27.82	19.10	-----	-----	51.82	12.35	19.10	54.09	65.86
St. Louis .....	39.18	38.85	19.67	-----	-----	90.74	44.34	19.67	103.01	100.00

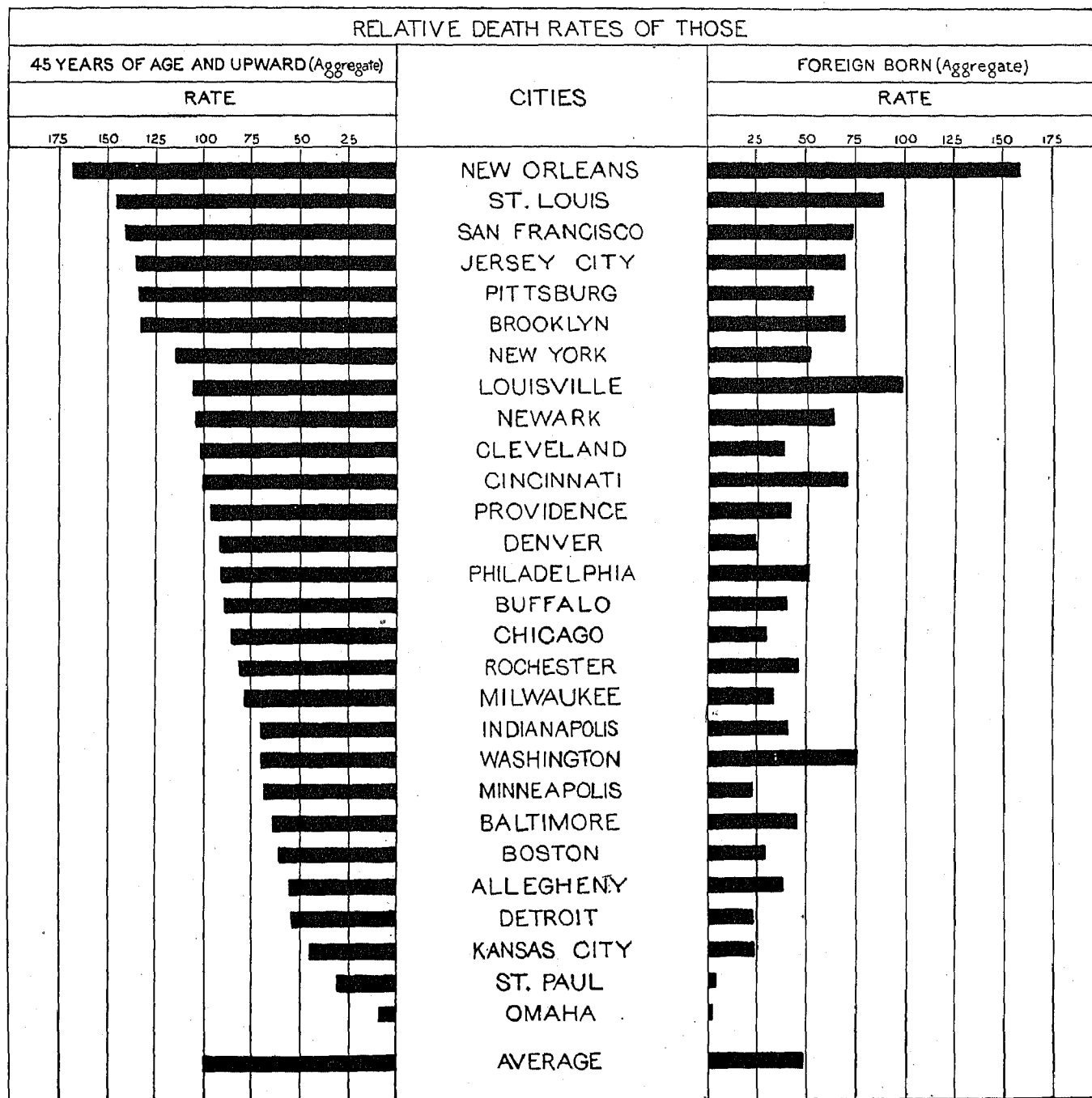
It will be seen from the preceding table that the death rate from diseases of the liver was about the same in the colored (27.12) as in the whites (27.50), and that among the whites it was much greater among the foreign born (49.10) than among the natives (16.85), and that it was greater among the natives having both parents native (20.77) than among the natives of whom one or both parents were foreign born (14.03).

It was much higher in those whose mothers were born in Ireland (41.80) than among those whose mothers were born in Germany (30.23), and very much higher than in those whose mothers were born in the United States (16.07). The greater part of these differences depends upon the fact that diseases of the liver affect especially those of comparatively advanced age.

The following diagram shows for 18 cities the relative death rates from diseases of the liver for the white and the colored, the cities being arranged in the order of magnitude of the ratio of the former:



The following diagram shows for the 28 cities the relative death rates from diseases of the liver for those 45 years of age and upward and for the foreign born, the cities being arranged in the order of magnitude of the ratio of the former:





## VITAL AND SOCIAL STATISTICS.

## DISEASES OF THE NERVOUS SYSTEM.

The total number of deaths in the 28 cities from diseases of the nervous system during the census year was 24,980, giving an average annual death rate of 257.58 per 100,000, ranging from 443.27 in Newark, 366.06 in New Orleans, 332.51 in Jersey city, and 305.36 in Philadelphia to 82.59 in Omaha, 145.08 in Minneapolis, and 172.73 in St. Paul.

The following table shows for the 28 cities and for their aggregate the death rates from diseases of the nervous system during the census year, in the aggregate and for 4 age groups, per 100,000 of corresponding population:

CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 years and over.	CITIES.	All ages.	Under 5 years.	5 to 15 years.	15 to 45 years.	45 years and over.
Total.....	257.58	1,215.00	54.11	59.22	509.44	Chicago.....	250.58	1,326.86	44.30	45.22	354.99
Newark.....	443.27	2,102.28	73.13	85.94	372.66	Rochester.....	242.73	1,154.15	67.76	54.47	450.47
New Orleans.....	366.06	1,697.47	38.10	119.72	636.44	St. Louis.....	240.39	1,194.56	41.33	68.77	393.80
Jersey city.....	332.51	1,863.36	51.46	63.16	488.90	Detroit.....	233.15	1,155.19	68.19	53.38	303.10
Philadelphia.....	305.36	1,549.98	80.23	53.75	567.09	New York.....	228.87	864.68	40.64	66.48	570.64
Milwaukee.....	300.29	1,504.32	44.53	53.32	384.72	Boston.....	222.75	842.98	50.81	57.61	502.06
Cleveland.....	296.53	1,545.25	57.83	70.72	417.78	Providence.....	221.72	981.60	52.97	32.35	545.45
Brooklyn.....	295.41	1,351.16	77.81	60.91	568.14	Indianapolis.....	217.19	1,110.88	33.88	49.22	408.81
Washington.....	284.30	1,266.81	31.55	83.48	619.83	Buffalo.....	213.17	847.82	32.01	44.90	500.26
Baltimore.....	269.54	1,182.92	31.04	52.15	612.64	Pittsburg.....	194.03	898.20	43.78	40.37	402.54
Cincinnati.....	269.11	1,324.36	58.56	62.67	499.03	Kansas city.....	183.10	1,034.67	53.27	52.96	331.15
Louisville.....	268.73	1,526.03	71.40	70.35	410.32	Denver.....	175.24	1,025.32	63.61	49.35	320.33
Allegheny.....	264.99	1,414.34	59.77	27.09	511.83	St. Paul.....	172.73	876.73	71.14	31.60	230.34
San Francisco.....	261.54	1,236.07	80.68	81.02	584.87	Minneapolis.....	145.08	742.38	58.80	35.02	224.03
						Omaha.....	82.59	319.74	26.33	29.52	252.26

It will be seen from this table that the death rates from diseases of the nervous system were highest in children under 5 years and in those 45 years of age and over, more than one-third of the deaths in the younger group being attributed to convulsions and more than two-thirds in the older group to apoplexy and paralysis.

The following table shows for the 28 cities the death rates from diseases of the nervous system during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total.....	257.58	253.89	284.45	290.03	271.54	191.86	330.40	(Of mothers.)		
								250.27	233.11	220.75
Boston.....	222.75	222.56	242.22	256.37	229.20	187.01	232.83	251.30	212.78	171.34
Brooklyn.....	295.41	294.19	323.33	359.43	297.66	234.35	383.70	355.90	286.19	234.08
Buffalo.....	213.17	213.36	229.29	255.53	215.57	183.86	171.09	237.62	210.37	130.04
Cincinnati.....	269.11	271.37	263.68	272.16	198.39	294.49	213.97	296.95	253.91	194.31
Cleveland.....	296.53	294.60	384.78	334.05	416.15	144.44	461.29	316.46	264.41	230.60
Detroit.....	233.15	235.15	302.12	200.36	357.73	134.65	115.81	157.33	203.41	220.46
Indianapolis.....	217.19	211.88	202.85	221.06	161.07	262.99	273.10	133.50	88.63	268.33
Jersey city.....	332.51	334.03	335.96	425.90	377.12	208.73	223.51	421.26	283.56	261.41
Milwaukee.....	300.29	300.49	332.09	290.05	420.63	157.15	214.13	249.41	170.88	321.03
Minneapolis.....	145.08	144.44	190.53	120.80	257.46	66.10	221.57	130.78	127.59	138.27
Newark.....	443.27	434.79	482.14	491.21	474.52	330.35	796.07	443.83	361.81	420.03
New York.....	228.87	228.92	243.13	259.53	235.50	209.89	225.91	247.96	242.40	189.46
Pittsburg.....	194.03	191.19	214.59	189.20	284.52	140.80	276.49	176.75	165.21	173.11
Providence.....	221.72	217.03	241.24	277.08	197.38	104.11	370.28	281.84	151.07	52.94
Rochester.....	242.73	243.78	247.90	232.81	259.06	234.06	-----	148.00	188.11	228.90
San Francisco.....	261.54	279.28	283.02	485.99	165.26	273.03	91.87	23.91	154.25	121.65
St. Paul.....	172.73	170.93	236.79	212.83	252.41	73.47	323.08	186.64	105.54	255.67
Washington.....	284.30	248.23	220.30	193.83	318.68	453.64	353.01	157.39	294.95	353.14
								(Of persons.)		
Allegheny.....	264.99	264.70	284.37	-----	-----	206.92	276.90	284.37	343.15	203.27
Baltimore.....	269.54	257.39	256.56	-----	-----	261.02	335.83	256.56	380.91	270.91
Chicago.....	250.58	250.88	345.47	-----	-----	117.21	223.93	345.47	189.92	122.33
Denver.....	175.24	173.29	212.27	-----	-----	69.56	98.26	212.27	94.88	55.93
Kansas city.....	183.10	173.37	176.20	-----	-----	159.91	266.28	176.20	324.25	81.55
Louisville.....	268.73	244.61	251.39	-----	-----	213.11	380.16	251.39	342.01	184.48
New Orleans.....	366.06	335.45	318.53	-----	-----	407.03	450.03	318.53	441.75	414.64
Omaha.....	82.59	81.74	89.22	-----	-----	60.13	107.34	89.22	98.85	60.39
Philadelphia.....	305.36	302.01	336.70	-----	-----	206.52	388.86	336.70	253.30	222.75
St. Louis.....	240.39	230.98	236.06	-----	-----	217.26	387.94	236.06	292.54	203.03

It will be seen from the preceding table that the death rate from diseases of the nervous system was greater among the colored (330.40) than among the whites (253.89). It was much greater among the native whites (284.45) than among the foreign born (191.86), owing to the much greater proportion of children under 5 years of age among the native born and the heavy death rate from convulsions in this age group. The death rate from this class of diseases was greater among those whose mothers were born in the United States (250.27) than among those whose mothers were born in Ireland (233.11) or among those whose mothers were born in Germany (220.75). The greater death rate among the colored from this class of diseases occurred mainly among young children, and from convulsive diseases, including trismus nascentium.

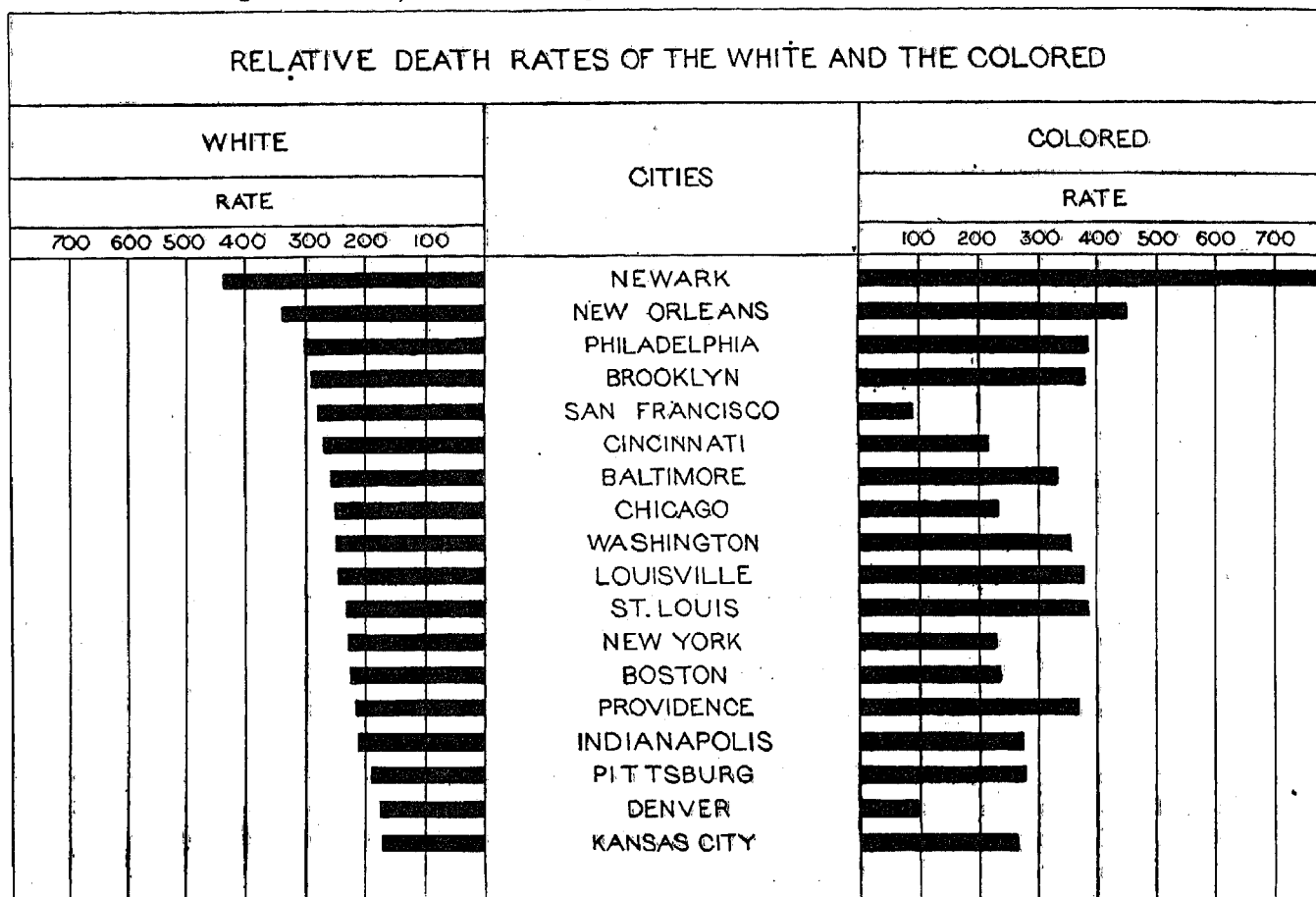
The following table shows for 5 cities the total death rates from this class of diseases of those under 5 years of age, and the corresponding death rate from convulsions per 100,000 of population, with distinction of color and sex, and of those whose mothers were born in the United States, in Ireland, and in Germany:

COLOR, SEX, AND BIRTHPLACES OF MOTHERS.	RATES PER 100,000 POPULATION UNDER 5 YEARS OF AGE IN—				
	New York.	Brooklyn.	Boston.	Cincinnati.	Washington.
Diseases of the nervous system.....	864.08	1,351.16	842.98	1,824.86	1,266.81
Convulsions.....	323.65	473.51	284.09	663.77	527.02
White:					
Males.....	349.19	530.44	289.40	784.24	385.13
Females.....	289.80	404.44	284.11	540.04	290.12
Colored:					
Males.....	475.06	1,118.59	.....	699.30	999.41
Females.....	941.18	1,014.20	323.02	626.30	777.56
Birthplaces of mothers:					
United States (white).....	254.01	472.74	276.97	635.88	243.65
Ireland.....	301.34	384.55	290.04	321.29	647.25
Germany.....	308.36	467.57	58.48	631.72	841.75

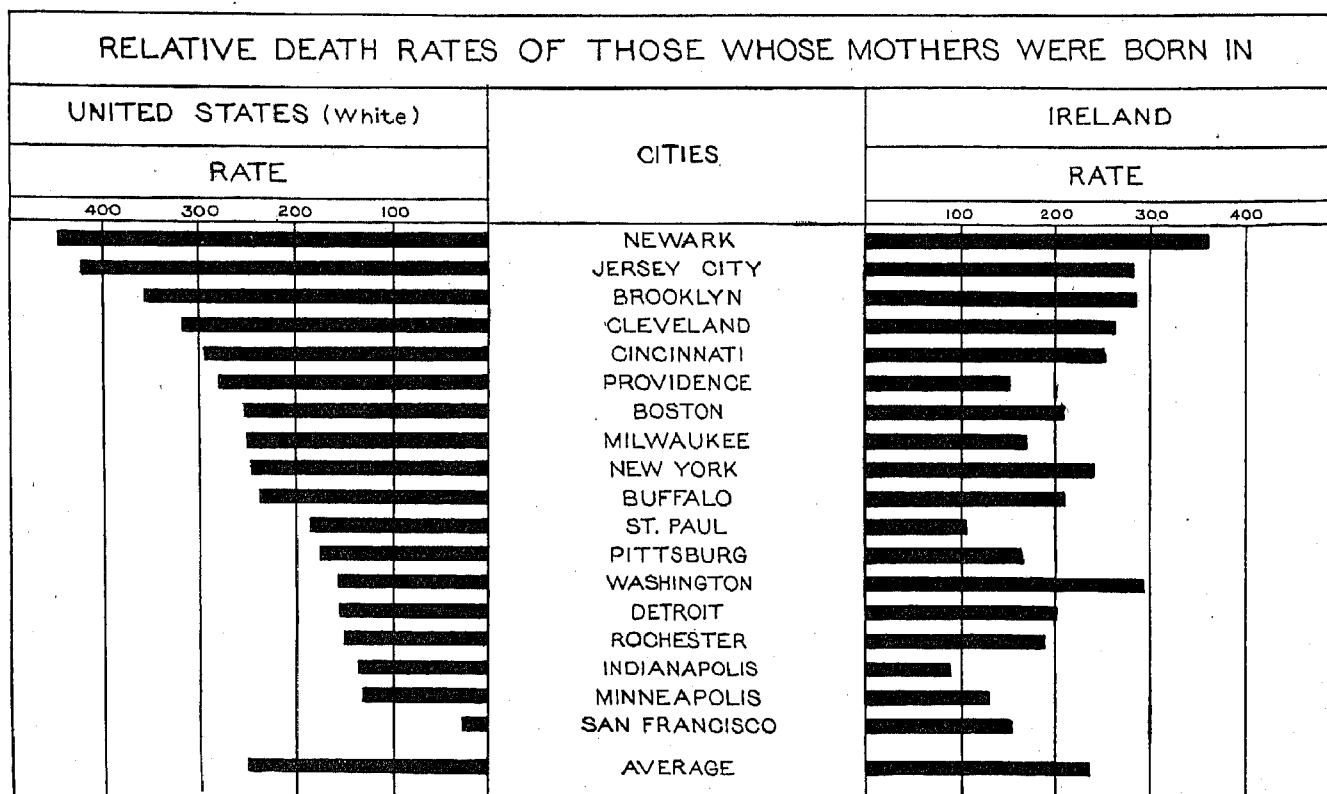
The following table shows for 5 cities the total death rates of those 45 years of age and over from this class of diseases for the census year, with the corresponding death rates for the same age period, from apoplexy and paralysis, per 100,000 of population, with distinction of color and sex, and of those whose mothers were born in the United States, in England and Wales, in Ireland, and in Germany:

COLOR, SEX, AND BIRTHPLACES OF MOTHERS.	RATES PER 100,000 POPULATION 45 YEARS OF AGE AND OVER IN—				
	New York.	Brooklyn.	Boston.	Cincinnati.	Washington.
Diseases of the nervous system.....	570.54	568.14	562.06	490.03	619.83
Apoplexy and paralysis.....	384.41	439.64	435.57	329.19	305.98
White:					
Males.....	404.47	417.00	453.90	417.73	398.38
Females.....	368.30	453.18	414.56	251.70	270.86
Colored:					
Males.....	114.01	389.61	439.88	121.51	393.90
Females.....	407.12	1,012.15	788.64	431.50	402.54
Birthplaces of mothers:					
United States (white).....	398.00	445.46	410.04	169.80	211.22
England and Wales.....	377.64	486.60	336.62	509.94	680.13
Ireland.....	442.05	502.09	459.76	418.57	229.70
Germany.....	347.13	351.22	462.96	263.35	565.64

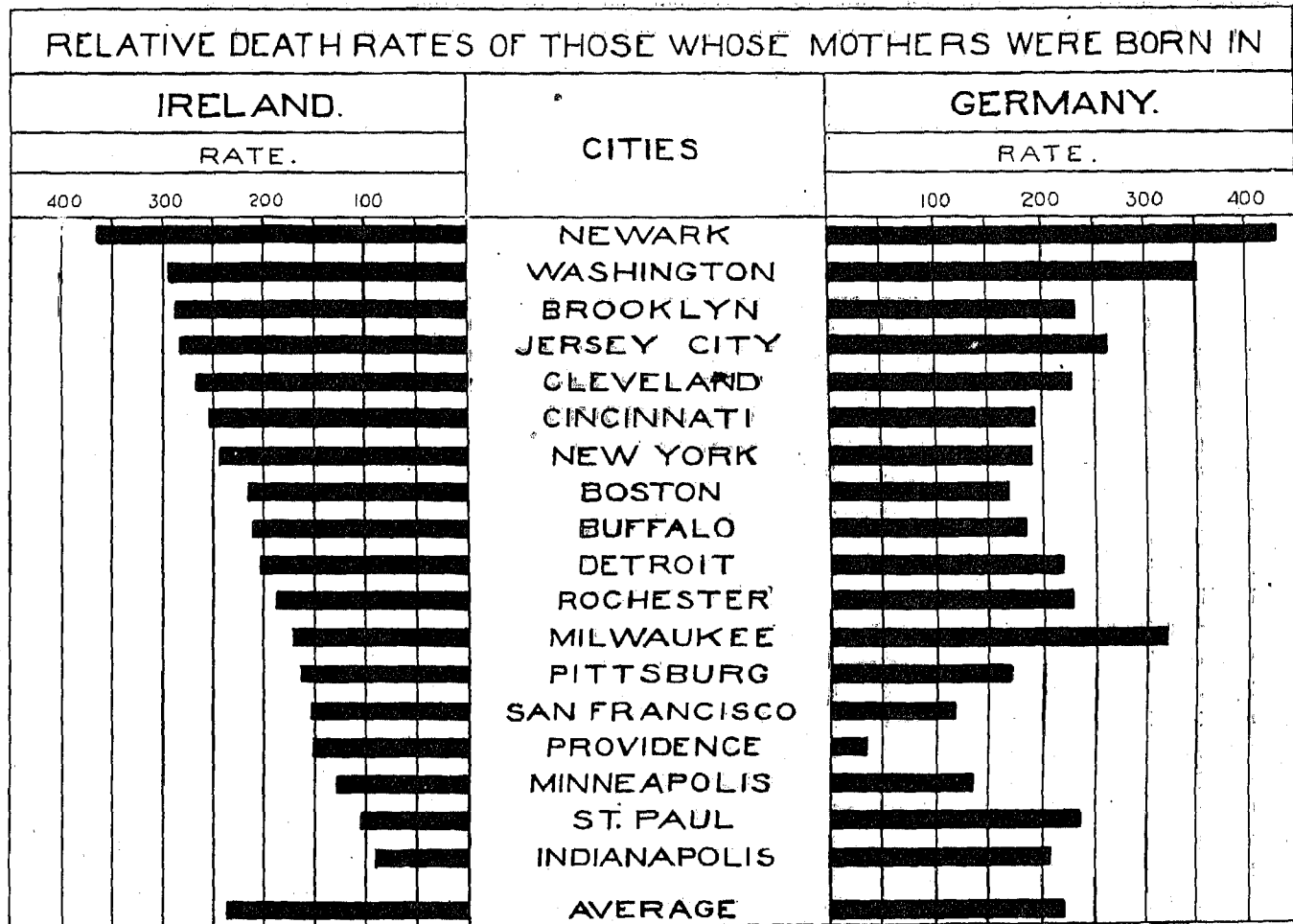
The following diagram shows for 18 cities the relative death rates from diseases of the nervous system among the white and among the colored, the cities being arranged in the order of magnitude of the ratio of the former:



The following diagram shows for 18 cities the relative death rates from diseases of the nervous system among those whose mothers were born in the United States and among those whose mothers were born in Ireland:



The following diagram shows for 18 cities the relative death rates from diseases of the nervous system among those whose mothers were born in Ireland and among those whose mothers were born in Germany:



## DISEASES OF THE URINARY SYSTEM.

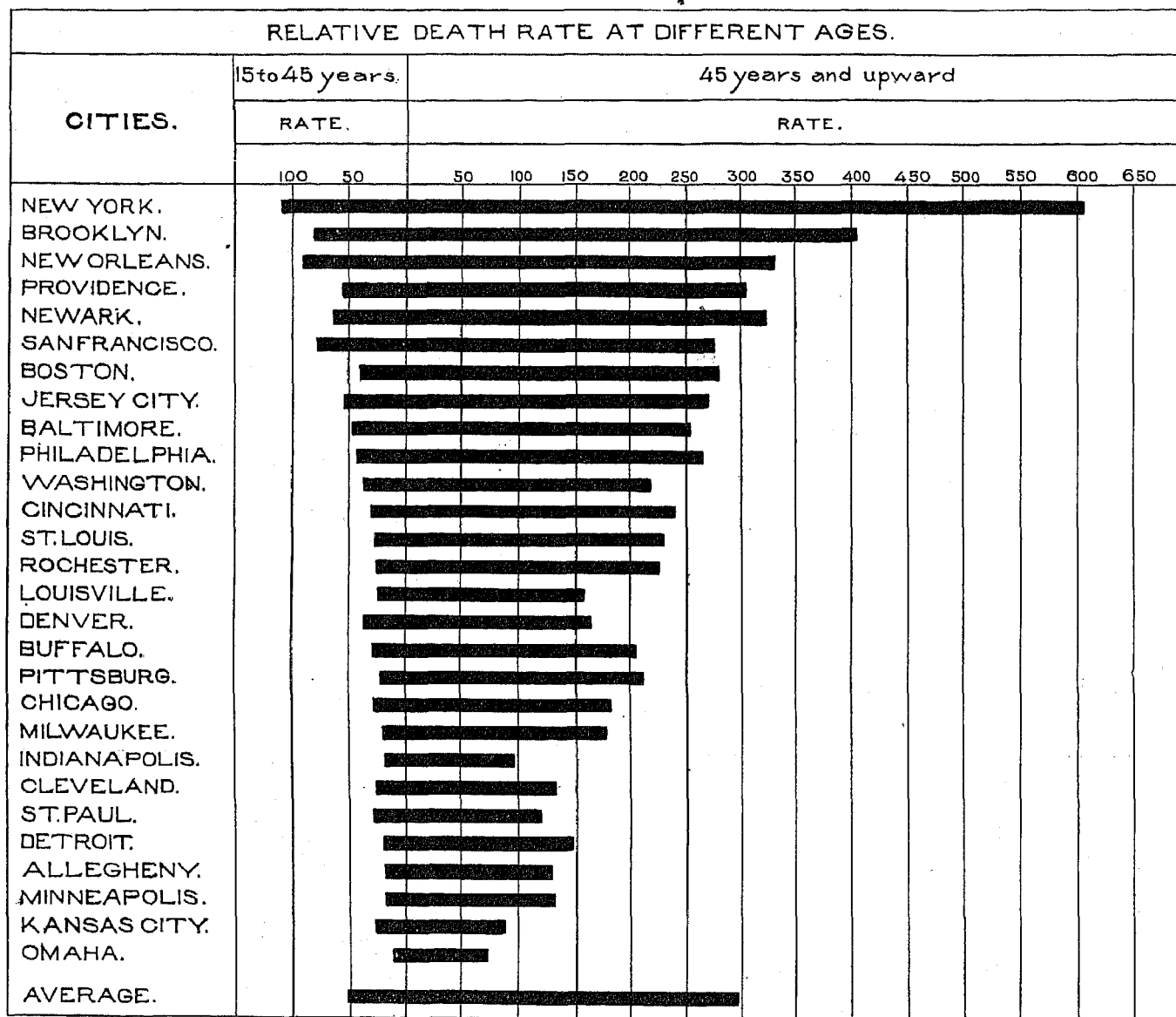
The total number of deaths in the 28 cities from diseases of the urinary system during the census year was 8,083, giving an average annual death rate of 83.35 per 100,000, ranging from 167.76 in New York, 121.16 in Brooklyn, and 108.66 in New Orleans to 14.95 in Omaha, 33.15 in Kansas city, and 33.39 in Minneapolis.

The following table shows for the 28 cities and for their aggregate the death rates from diseases of the urinary system during the census year, in the aggregate and for 3 age groups, per 100,000 of corresponding population:

CITIES.	All ages.	Under 15 years.	15 to 45 years.	45 years and over.	CITIES.	All ages.	Under 15 years.	15 to 45 years.	45 years and over.
Total.....	83.35	21.40	52.02	209.58	Rochester.....	56.76	12.29	27.24	225.40
New York.....	167.76	38.98	108.74	605.34	Louisville.....	51.51	20.36	24.02	157.53
Brooklyn.....	121.16	31.47	82.24	404.14	Denver.....	50.60	31.05	37.89	161.08
New Orleans.....	108.66	8.93	91.06	332.84	Buffalo.....	48.80	9.30	29.79	205.37
Providence.....	99.89	29.30	56.27	306.35	Pittsburg.....	44.84	13.93	21.37	210.42
Newark.....	97.89	28.05	64.46	323.68	Chicago.....	44.82	14.04	29.42	181.59
San Francisco.....	97.66	19.63	74.01	276.75	Milwaukee.....	42.55	15.94	23.14	177.04
Boston.....	81.16	14.15	43.60	279.86	Indianapolis.....	41.73	50.47	19.34	98.11
Jersey city.....	79.75	23.28	56.14	271.64	Cleveland.....	37.88	12.73	25.31	134.28
Philadelphia.....	78.04	16.42	45.00	265.57	St. Paul.....	37.55	14.03	32.91	121.57
Baltimore.....	77.34	19.50	49.45	254.21	Detroit.....	36.92	7.33	21.92	148.49
Washington.....	66.84	13.82	38.40	217.60	Allegheny.....	35.14	11.87	19.87	131.08
Cincinnati.....	60.29	10.98	30.37	241.59	Minneapolis.....	33.39	19.31	19.57	134.96
St. Louis.....	59.32	26.70	27.85	231.92	Kansas city.....	33.15	17.05	26.48	87.14
					Omaha.....	14.95	4.67	11.81	73.22

It will be seen from the preceding table that diseases of the urinary system are much more fatal among those 45 years of age and over than they are among those under 45 years of age. Of the 4,698 deaths from these causes in persons 45 years of age and over, 2,406, or a little more than half, were due to Bright's disease.

The following diagram shows for the 28 cities the relative death rates from diseases of the urinary system in persons 15 to 45 years of age and 45 years of age and over per 100,000 of the population of corresponding age groups:



## CITIES OF 100,000 INHABITANTS AND UPWARD.

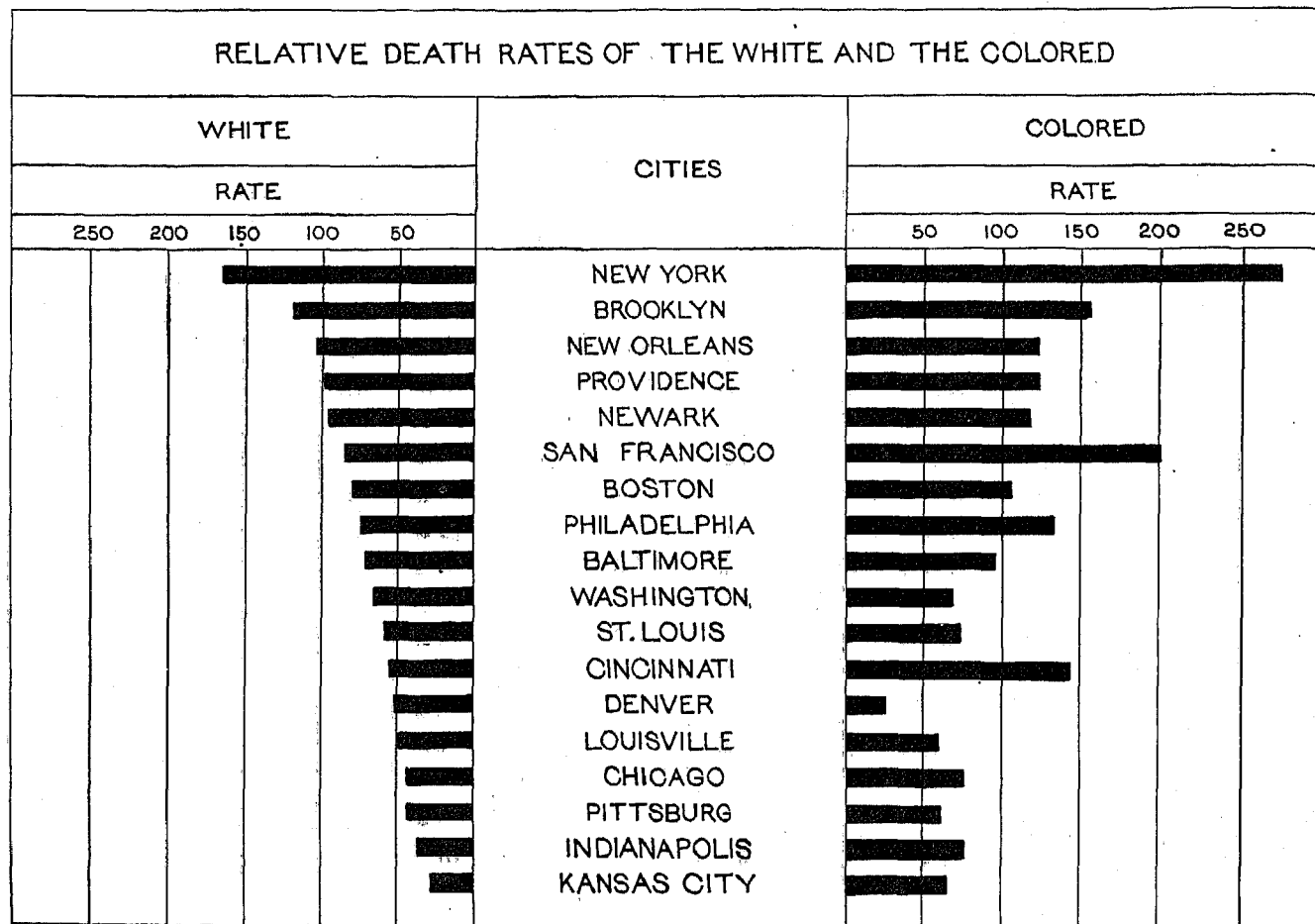
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The following table shows for the 28 cities the death rates from diseases of the urinary system during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

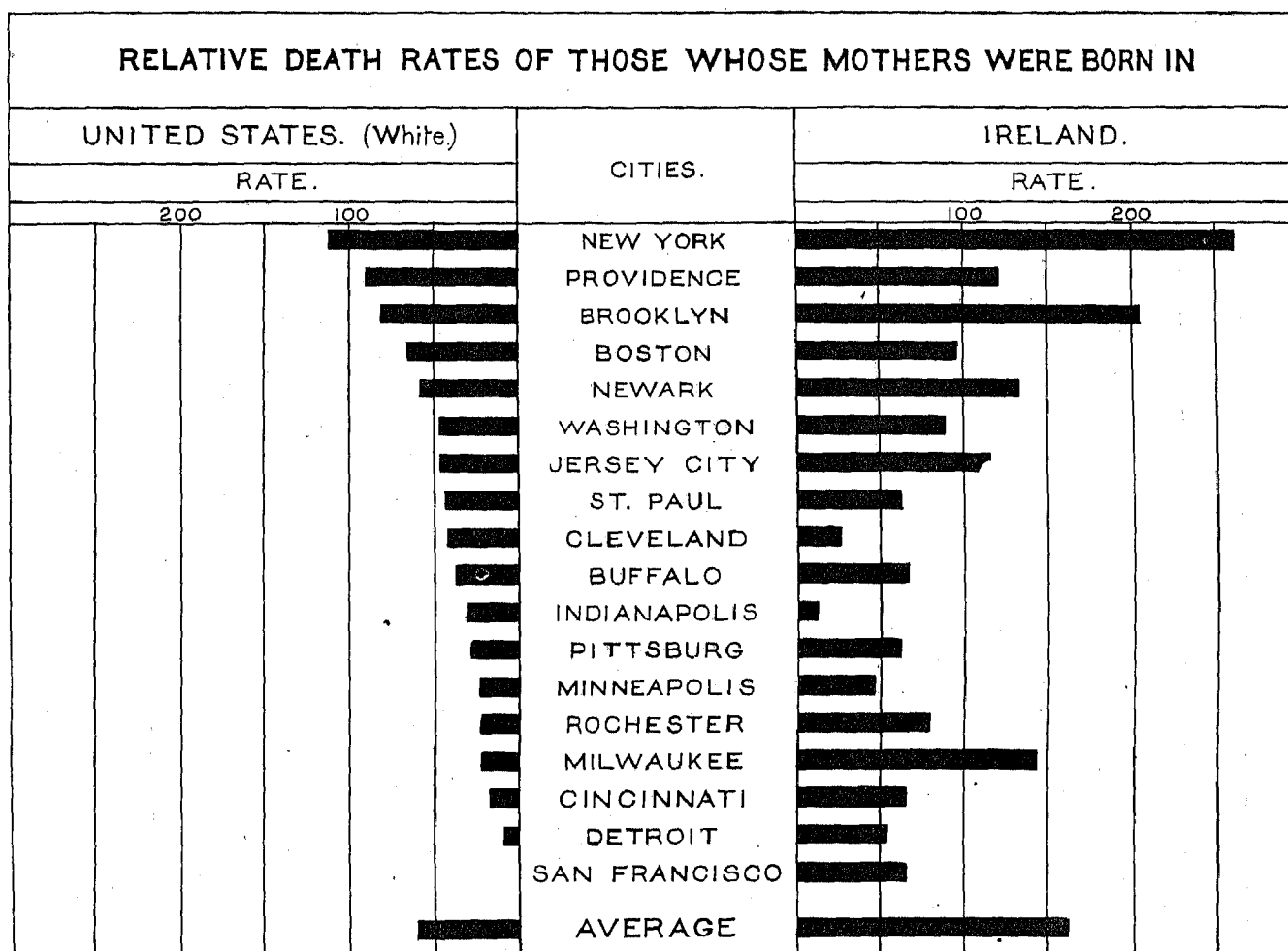
CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	83.35	82.02	56.20	75.27	57.08	134.42	109.56	(Of mothers.) 59.08	162.00	82.04
Boston.....	81.16	80.70	63.91	79.56	49.50	111.06	104.77	65.85	96.43	99.95
Brooklyn.....	121.16	120.69	82.48	90.31	76.90	199.06	155.81	81.65	204.71	98.02
Buffalo.....	48.89	49.12	30.25	51.11	19.35	84.08	-----	36.87	66.94	44.94
Cincinnati.....	60.29	56.80	30.85	43.66	23.21	134.02	145.50	16.55	64.95	62.93
Cleveland.....	37.88	36.78	29.12	48.65	17.05	49.52	181.80	41.28	24.89	31.17
Detroit.....	26.92	36.06	17.29	25.63	12.73	64.24	86.86	7.40	52.03	24.66
Indianapolis.....	41.73	38.43	34.22	38.00	24.10	62.20	76.47	29.10	11.08	26.55
Jersey city.....	79.76	79.62	49.26	60.16	42.41	141.03	89.41	47.24	114.96	54.71
Milwaukee.....	42.55	42.05	29.73	44.06	25.71	62.86	-----	22.67	143.90	26.06
Minneapolis.....	33.39	33.05	29.16	25.96	32.69	39.60	73.86	22.97	47.85	54.11
Newark.....	97.89	97.43	67.12	84.26	52.72	164.27	117.07	57.02	133.64	92.13
New York.....	167.76	165.95	108.84	130.51	98.77	242.39	272.05	112.31	261.43	142.16
Pittsburg.....	44.84	44.22	27.94	33.22	23.79	79.28	62.84	27.28	62.46	41.47
Providence.....	99.89	99.15	78.52	95.12	58.20	144.22	123.43	90.11	120.86	128.16
Rochester.....	59.76	57.01	40.60	45.08	37.28	95.64	-----	22.93	78.38	53.41
San Francisco.....	97.66	86.81	59.08	82.07	40.68	132.08	201.41	-----	84.73	55.50
St. Paul.....	37.55	37.98	39.46	54.82	29.45	35.80	-----	44.57	62.09	38.74
Washington.....	66.84	60.68	52.14	55.91	38.10	172.81	67.37	47.67	88.49	84.45
Allegany.....	35.14	33.09	20.87	-----	-----	68.97	118.07	20.87	54.18	90.34
Baltimore.....	77.34	73.81	59.95	-----	-----	134.16	90.59	59.95	126.97	147.89
Chicago.....	44.82	44.42	27.54	-----	-----	68.28	74.06	27.54	105.07	70.17
Denver.....	50.60	51.64	47.31	-----	-----	65.46	24.56	47.31	-----	93.06
Kansas city.....	33.15	29.46	29.54	-----	-----	29.08	61.77	29.54	-----	65.43
Louisville.....	51.51	49.83	34.86	-----	-----	119.34	59.20	34.86	190.01	99.33
New Orleans.....	108.66	103.17	75.28	-----	-----	221.22	123.72	75.28	239.81	238.14
Omaha.....	14.95	15.46	10.91	-----	-----	28.03	-----	10.91	49.13	12.08
Philadelphia.....	78.04	75.80	60.81	-----	-----	117.06	133.75	60.81	188.82	128.05
St. Louis.....	59.32	58.39	37.09	-----	-----	116.05	73.89	37.09	140.09	100.06
								(Of persons.)		

It will be seen from this table that the death rate from diseases of the urinary system was much greater among the colored (109.56) than among the whites (82.02), and more than twice as great among the foreign born (134.42) as among the native (56.20), which is largely due to the much greater proportion of adults among the foreign born. Among the native whites it was greater among those of whom both parents were native (75.27) than among those of whom one or both parents were foreign born (57.08), and it was very much greater among those whose mothers were born in Ireland (162.00) than among those whose mothers were born in Germany (82.04), or among those whose mothers were born in the United States (59.08).

The following diagram shows for 18 cities the relative death rates from diseases of the urinary system among the white and among the colored, the cities being arranged in the order of magnitude of the ratio of the former:

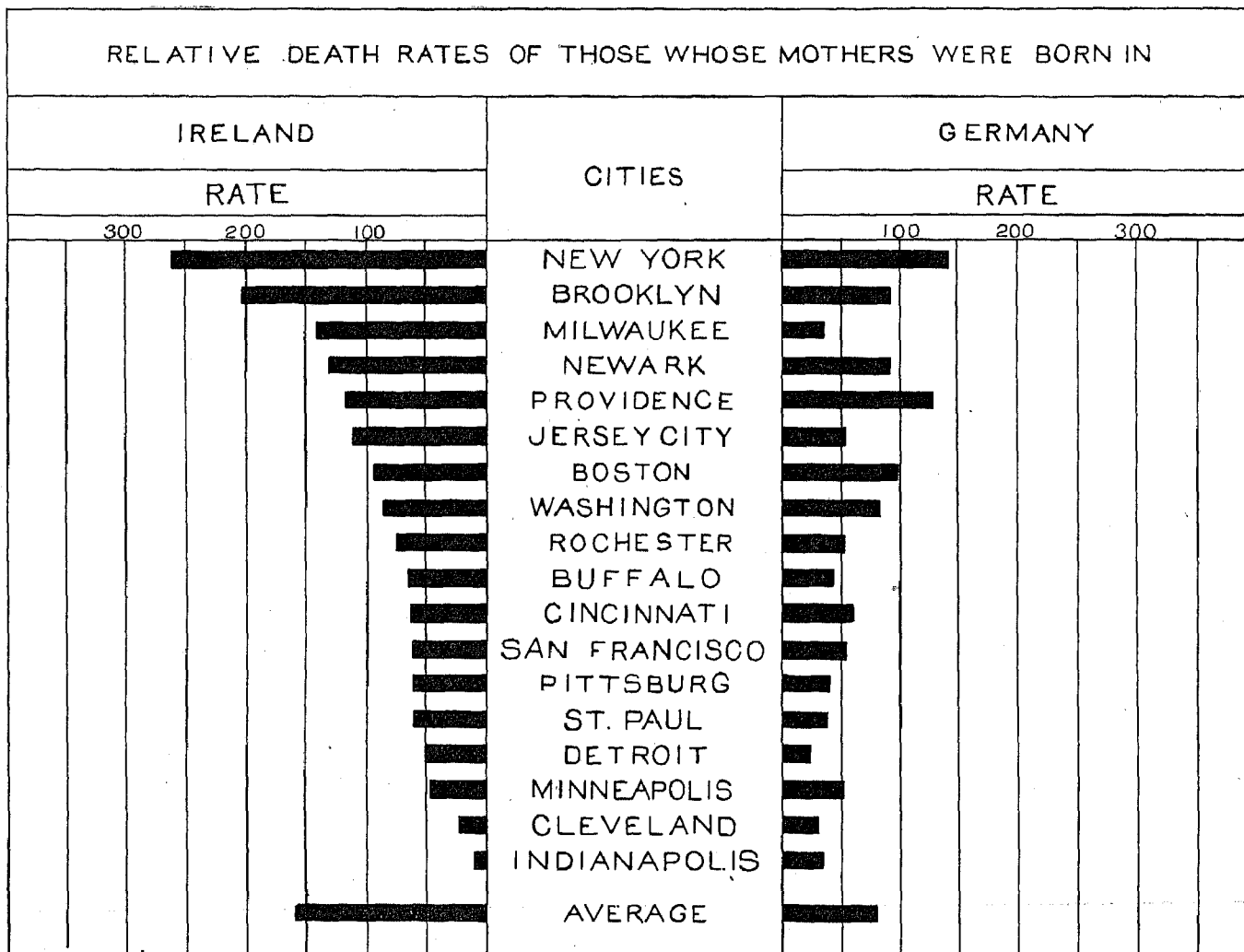


The following diagram shows for 18 cities the relative death rates from diseases of the urinary system of those whose mothers were born in the United States and of those whose mothers were born in Ireland, the cities being arranged in the order of magnitude of the ratio of the former:





The following diagram shows for 18 cities the relative death rates from diseases of the urinary system per 100,000 of population for those whose mothers were born in Ireland and for those whose mothers were born in Germany, the cities being arranged in the order of magnitude of the ratio of the former:



## CITIES OF 100,000 INHABITANTS AND UPWARD.

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## OLD AGE.

The total number of deaths in the 28 cities from old age during the census year was 3,149, giving an average death rate of 32.47 per 100,000 of corresponding population, ranging from 76.34 in Louisville, 69.25 in Cleveland, and 61.24 in Rochester to 6.64 in St. Louis, 14.24 in Omaha, 15.95 in Newark, and 16.49 in Washington.

The following table shows for the 28 cities the death rates from old age during the census year, by color and general nativity, per 100,000 of corresponding population, also for 18 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers, and for 10 of the cities of certain birthplaces of persons:

CITIES.	Aggregate.	WHITE.					Colored.	BIRTHPLACES.		
		Total.	Native born.			Foreign born.		United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.					
Total .....	32.47	32.18	15.95	31.01	4.69	65.12	38.23	(Of mothers.)		
								22.17	53.23	20.81
Boston.....	40.38	47.28	27.54	55.25	2.03	82.97	80.54	36.28	66.57	23.80
Brooklyn.....	42.04	42.12	26.37	51.67	8.33	74.41	30.54	43.42	52.96	28.64
Buffalo.....	28.08	28.18	7.26	17.02	1.84	52.69	.....	12.29	41.44	30.31
Cincinnati.....	19.87	20.69	5.14	11.20	1.50	67.31	.....	5.84	44.29	24.39
Cleveland.....	69.25	68.91	24.78	53.51	7.02	142.38	.....	41.28	139.98	82.30
Detroit.....	35.94	36.06	10.70	20.97	5.09	74.12	.....	9.25	99.34	26.11
Indianapolis.....	43.63	44.66	28.11	39.33	16.11	138.42	.....	15.40	110.79	41.77
Jersey city.....	23.31	23.64	11.15	24.06	3.03	48.89	.....	19.09	28.74	18.24
Milwaukee.....	35.70	35.78	8.84	29.37	3.09	77.95	.....	12.60	89.94	42.22
Minneapolis.....	20.03	20.20	10.53	25.96	6.13	26.44	.....	14.14	23.92	30.06
Newark.....	15.95	16.33	7.37	8.96	6.03	36.10	.....	4.62	22.82	19.87
New York.....	27.52	27.26	9.50	24.03	2.75	51.02	.....	19.51	45.32	20.31
Pittsburg.....	18.44	19.08	8.98	8.87	5.66	46.11	.....	9.49	32.24	30.65
Providence.....	47.67	46.06	35.28	57.90	7.59	69.62	.....	55.60	62.75	.....
Rochester.....	61.24	61.51	25.65	47.58	9.32	145.97	.....	20.85	125.40	45.78
San Francisco.....	28.09	28.81	11.82	16.09	9.34	57.17	.....	21.20	45.45	25.80
St. Paul.....	21.03	19.75	8.91	22.57	.....	35.80	.....	19.50	48.46	25.83
Washington.....	16.49	12.28	9.56	11.18	3.46	32.40	.....	8.09	29.50	7.68
								(Of persons.)		
Allegheny.....	35.14	36.01	11.74	.....	.....	107.29	.....	11.74	144.48	127.08
Baltimore.....	41.66	40.58	20.10	.....	.....	129.78	.....	20.10	289.00	125.28
Chicago.....	26.65	26.82	9.60	.....	.....	51.15	.....	9.60	114.24	49.06
Denver.....	21.55	22.41	23.02	.....	.....	20.40	.....	23.02	47.44	37.22
Kansas city.....	16.58	17.07	7.13	.....	.....	67.84	.....	7.13	129.70	65.48
Louisville.....	76.34	70.21	32.11	.....	.....	247.21	104.63	32.11	456.01	184.48
New Orleans.....	27.68	15.22	8.36	.....	.....	44.24	61.86	8.36	37.86	97.02
Omaha.....	14.24	13.99	11.90	.....	.....	20.04	21.47	11.90	49.18	48.82
Philadelphia.....	43.34	43.71	28.58	.....	.....	85.87	47.00	28.58	146.03	52.02
St. Louis.....	6.64	6.59	2.20	.....	.....	18.32	7.39	2.26	28.84	15.15

It will be seen from this table that the death rate attributed to old age was greater among the colored (38.23) than among the whites (32.18), and that it was much greater among the foreign born (65.12) than among the native whites (15.95), owing to the much larger proportion of persons of advanced age among the foreign born, and that it was much greater among the native whites of whom both parents were native (31.01) than among the native whites having one or both parents foreign born (4.69), and that it was much greater among those whose mothers were born in Ireland (53.23) than among those whose mothers were born in Germany (29.81) or among those whose mothers were born in the United States (22.17).

This table of ratios of deaths from old age to population has been given to permit of comparison with similar tables presented in other reports, but the comparison of the deaths from this cause should be made, not with the total population, but with that part of the population of advanced age, as is done in the table following.

The following table shows for the 28 cities the death rates from old age during the census year, by color and general nativity, per 100,000 of corresponding population 60 years of age and over (unknown age included), and for 18 of the cities the additional distinction of parental nativity:

CITIES.	Aggregate.	WHITE.					Colored.
		Total.	Native born.			Foreign born.	
			Total.	Both parents native.	One or both parents foreign.		
Total.....	600.82	594.02	536.35	497.38	745.77	627.55	741.66
Boston.....	684.66	692.36	512.82	528.02	298.21	876.48	.....
Brooklyn.....	766.27	766.85	902.80	867.01	1,104.50	691.20	720.72
Buffalo.....	428.56	430.47	380.83	371.33	436.68	445.29	.....
Cleveland.....	1,353.98	1,346.44	1,059.60	978.65	1,736.97	1,461.09	2,027.03
Cincinnati.....	327.52	337.09	269.15	273.97	249.38	357.78	.....
Detroit.....	674.57	679.13	462.14	371.13	1,030.93	756.05	452.49
Indianapolis.....	756.83	762.14	690.07	632.91	1,208.46	866.18	688.07
Jersey city.....	511.37	515.60	538.60	530.22	584.80	505.64	.....
Minneapolis.....	472.98	478.26	470.78	419.41	1,098.90	436.47	.....
Milwaukee.....	656.36	657.78	784.80	642.05	1,195.22	645.77	.....
Newark.....	273.35	278.26	223.44	137.70	1,007.56	312.79	.....
New York.....	565.92	558.33	439.24	426.31	500.94	598.79	1,136.36
Pittsburg.....	426.07	435.69	364.08	280.37	572.08	465.77	.....
Providence.....	672.79	647.21	577.60	541.06	1,562.50	746.87	1,612.90
Rochester.....	916.61	921.35	756.62	679.54	1,329.79	1,012.57	.....
St. Paul.....	511.98	479.97	383.14	432.63	.....	529.25	3,846.15
San Francisco.....	477.60	476.36	373.41	220.17	1,228.50	526.41	494.23
Washington.....	238.14	161.03	159.31	161.83	134.23	164.88	456.05
Allegheny.....	678.77	694.31	451.35	.....	.....	839.58	.....
Baltimore.....	631.12	587.98	491.56	.....	.....	677.58	658.06
Chicago.....	664.47	670.75	499.14	.....	.....	738.05	178.25
Denver.....	515.58	566.50	628.71	.....	.....	417.71	.....
Kansas city.....	422.51	442.20	216.12	.....	.....	927.15	218.34
Louisville.....	1,237.30	1,136.78	1,037.04	.....	.....	1,206.82	1,704.55
New Orleans.....	426.97	237.28	356.08	.....	.....	187.29	927.43
Omaha.....	585.99	570.57	679.89	.....	.....	447.28	1,204.82
Philadelphia.....	657.83	650.07	646.51	.....	.....	653.39	909.09
St. Louis.....	128.95	128.51	127.81	.....	.....	128.74	185.50

It will be seen from this table that the death rate attributed to old age among the population 60 years of age and over was much greater among the colored (741.66) than among the whites (594.02), that it was greater among the foreign born (627.55) than among the native whites (536.35), and that it was much greater among the whites of whom one or both parents were foreign born (745.77) than among those of whom both parents were natives (497.38), which last is the reverse of the ratio given in the preceding table.

#### STILLBIRTHS.

In 25 cities of 100,000 inhabitants and upward the average number of stillbirths per 100,000 of population during the census year was 175.03, ranging from 219.63 in Washington, 217.91 in New York, and 214.43 in New Orleans to 115.39 in San Francisco, 121.82 in Denver, and 124.11 in Providence.

The greatest proportion of stillbirths per 100,000 of population occurred among the colored, in ward 16 in St. Louis (909.09).

In the 28 largest German cities the number of stillbirths reported in 1890 per 100,000 of population was, for the aggregate, 104, ranging from 182 in Nuremberg, 141 in Chemnitz, 135 in Barmen, and 129 in Breslau to 78 in Frankfort on the Main, 86 in Bremen, 91 in Halle, and 92 in Stuttgart. The ratio of stillbirths to population was, therefore, much larger in the large cities of the United States than in those of Germany.

## CITIES OF 100,000 INHABITANTS AND UPWARD.

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The following table shows for 25 cities and for their aggregate the number of stillbirths reported as having occurred during the census year per 100,000 of the total population, with distinction of native white and colored, and for 16 of the cities the additional distinction of parental nativity and of certain birthplaces of mothers:

CITIES.	Aggregate.	WHITE.				Colored.	BIRTHPLACES OF MOTHERS.		
		Total.	Native born.				United States. (White.)	Ireland.	Germany.
			Total.	Both parents native.	One or both parents foreign.				
Total.....	175.03	169.40	252.05	224.01	203.54	281.50	206.45	95.86	128.48
Washington.....	219.63	122.18	188.79	186.99	145.48	418.77	137.61	64.89	92.12
New York.....	217.61	216.77	378.71	329.04	401.78	284.33	310.03	119.44	154.29
New Orleans.....	214.48	184.92	228.01			295.38			
Chicago.....	200.48	201.67	344.21			121.20			
Allegheny.....	198.61	202.42	271.32			39.66			
St. Paul.....	194.51	190.00	328.44	235.40	389.14	65.62	220.07	204.87	196.93
Kansas city.....	193.05	180.10	217.90			309.46			
Jersey city.....	187.73	180.61	278.85	274.31	281.70	268.22	273.62	93.88	164.14
Baltimore.....	185.99	156.61	192.59			346.23			
St. Louis.....	175.75	165.06	226.06			343.00			
Cleveland.....	173.71	173.82	278.21	199.46	326.91	164.74	203.64	124.43	150.88
Detroit.....	171.85	173.89	289.78	202.60	337.36	67.90	148.08	33.11	153.74
Louisville.....	171.91	144.20	175.24			299.94			
Pittsburg.....	168.47	165.61	242.53	213.75	265.11	251.35	175.56	100.74	131.64
Brooklyn.....	165.31	166.33	247.44	234.08	256.33	91.36	232.32	63.70	150.77
Newark.....	163.34	150.05	232.47	195.41	203.62	304.38	206.51	97.79	122.84
Indianapolis.....	152.70	143.33	168.64	180.70	140.94	251.26	90.71	44.32	57.43
Buffalo.....	151.76	151.28	232.92	215.00	242.28	256.63	211.67	79.60	104.52
Philadelphia.....	138.21	135.61	184.87			203.10			
Cincinnati.....	136.74	128.32	171.10	268.85	112.30	342.35	243.40	44.29	53.49
Boston.....	134.68	132.09	206.56	137.03	270.57	221.19	148.49	98.94	90.43
Minneapolis.....	126.87	127.92	203.17	116.82	238.32		125.48	71.77	72.14
Providence.....	124.11	121.00	176.38	117.86	247.99	222.17	139.96	92.97	192.25
Denver.....	121.82	121.78	159.84			122.82			
San Francisco.....	115.39	124.12	198.53	270.85	156.86	31.80	22.58	5.51	8.97

It will be seen from this table that in proportion to the total population the number of stillbirths was greater among the colored than among the whites, greater among those of foreign parentage than among the native, and greater among the children of mothers born in the United States than among those whose mothers were born in Ireland or in Germany.

These ratios have been given to permit of comparisons with ratios for other cities and countries calculated in like manner, but little definite information is to be gained from comparison of the number of stillbirths with the total number of population, the ratios which are really of value being derived from comparing the number of stillbirths with the number of women of childbearing ages.

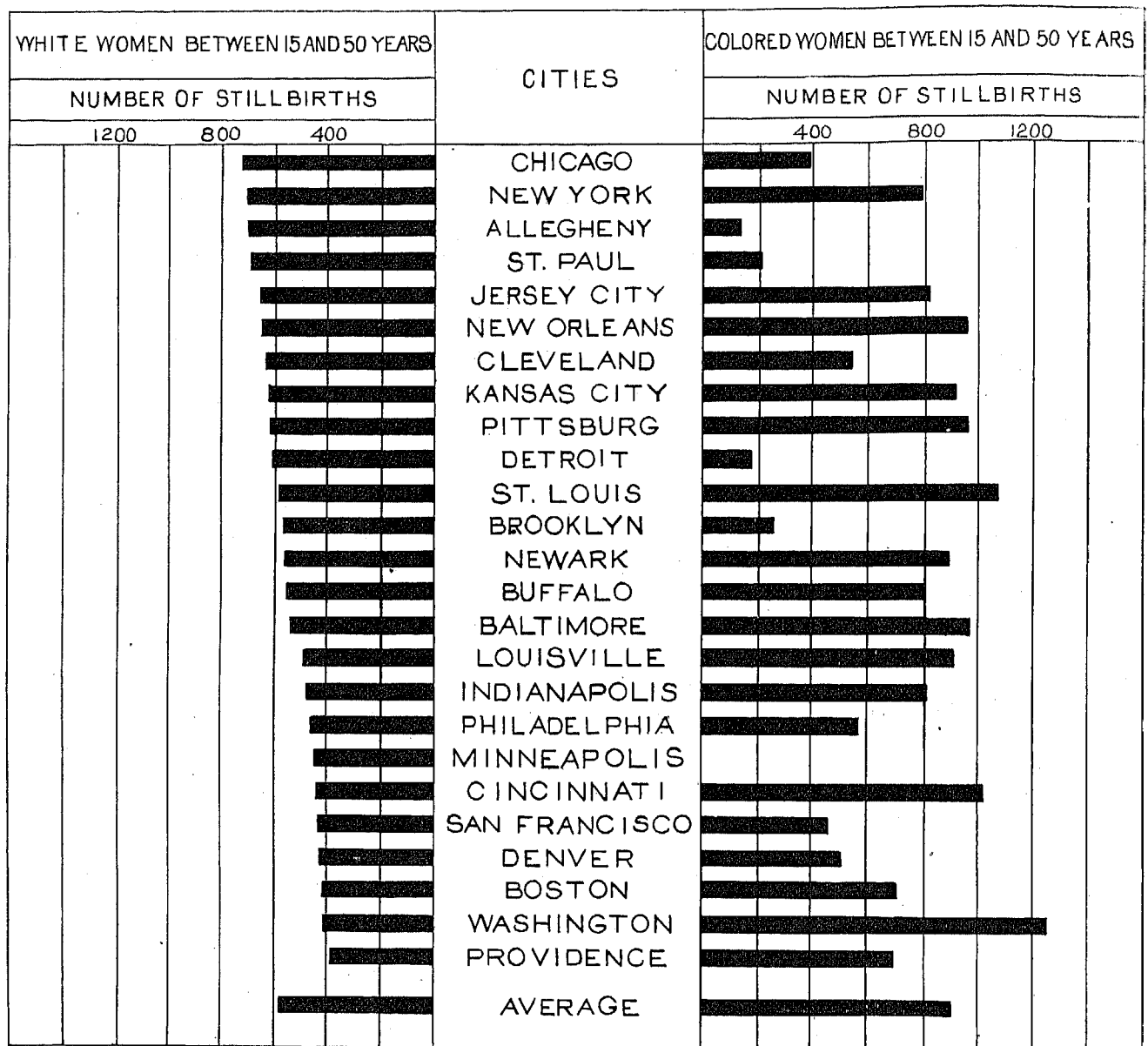
The following table shows for 25 cities and for their aggregate the number of stillbirths occurring during the census year per 100,000 women between 15 and 50 years of age, with distinction of white and colored, the cities being arranged in the order of magnitude of the aggregate stillbirths:

CITIES.	NUMBER PER 100,000 WOMEN BETWEEN 15 AND 50 YEARS OF AGE.			CITIES.	NUMBER PER 100,000 WOMEN BETWEEN 15 AND 50 YEARS OF AGE.		
	Aggregate.	White.	Colored.		Aggregate.	White.	Colored.
Total.....	601.40	584.57	895.17	Detroit.....	601.03	609.59	182.48
New Orleans.....	735.03	649.12	953.95	Louisville.....	579.46	406.89	918.00
Chicago.....	723.43	728.36	397.09	Newark.....	560.40	560.12	897.17
New York.....	715.48	713.93	791.07	Brooklyn.....	563.75	568.48	208.38
Washington.....	709.23	410.96	1,250.25	Buffalo.....	560.05	558.72	806.45
Allegheny.....	698.23	711.91	139.66	Indianapolis.....	507.44	477.33	816.47
St. Paul.....	688.77	694.61	217.30	Cincinnati.....	460.45	443.29	1,020.15
Jersey city.....	662.70	660.12	823.05	Philadelphia.....	463.00	457.50	576.45
Kansas city.....	661.16	625.93	918.41	Minneapolis.....	443.44	446.90	
Cleveland.....	635.77	636.89	549.45	San Francisco.....	442.83	442.15	469.73
Pittsburg.....	632.12	620.80	969.93	Denver.....	442.15	439.69	513.87
Baltimore.....	624.82	545.61	973.67	Boston.....	430.23	424.89	705.70
St. Louis.....	624.55	591.48	1,079.51	Providence.....	402.58	392.98	694.98

It will be seen from this table that the rate of stillbirths was much greater among the colored women of childbearing ages (895.17) than among the white women of corresponding ages (584.57).

## VITAL AND SOCIAL STATISTICS.

The following diagram shows for 25 cities and for their aggregate the relative proportion of stillbirths during the census year to each 100,000 women between 15 and 50 years of age, with distinction of white and colored, the cities being arranged in the order of magnitude of the ratio for the whites:



It will be seen from this diagram that there is no relation between the ratio of stillbirths occurring among white and colored women of childbearing ages in the different cities, and that in some of the cities the ratio of stillbirths among the colored was less than among the whites.

There is no definite relation between the ratio of stillbirths and the birth rate, or the number of children born alive, in different cities, as will be seen from the following table, which shows for 27 cities and for their aggregate the number of stillbirths per 100,000 women from 15 to 50 years of age and the number of stillbirths per 1,000 born alive, with distinction of the white for certain (5) cities:

CITIES.	NUMBER OF STILLBIRTHS PER—		CITIES.	NUMBER OF STILLBIRTHS PER—	
	100,000 women 15 to 50 years of age.	1,000 born alive.		100,000 women 15 to 50 years of age.	1,000 born alive.
Total .....	601.40	62.65	Buffalo.....	560.05	49.24
Chicago.....	723.43	64.63	Baltimore (white) .....	545.61	61.22
New York.....	715.48	76.79	(total) .....	624.82	71.72
Allegheny.....	698.23	74.46	Indianapolis.....	507.44	75.16
St. Paul .....	688.77	61.83	Louisville (white) .....	496.83	59.15
Jersey city.....	682.70	65.25	(total) .....	579.46	72.06
			Cincinnati.....	469.45	53.45
Kansas city.....	661.16	79.32	Philadelphia.....	463.00	55.06
New Orleans (white).....	649.12	71.96	Minneapolis .....	443.44	45.25
(total).....	735.63	84.13	San Francisco .....	442.83	60.89
Cleveland.....	635.77	60.89	Denver .....	442.15	54.21
Pittsburg.....	632.12	58.21	Boston.....	430.28	59.40
			Washington (white) .....	410.96	58.24
Detroit .....	601.63	57.44	(total) .....	709.23	95.22
St. Louis (white) .....	591.48	62.39	Providence .....	402.58	58.36
(total) .....	624.55	66.07	Omaha.....	188.02	23.78
Newark .....	599.40	59.94	Milwaukee .....	188.35	15.20
Brooklyn .....	563.75	61.07			

## VITAL AND SOCIAL STATISTICS.

The following diagram shows for 20 cities the number of stillbirths per 100,000 women from 15 to 50 years of age and the number of stillbirths per 10,000 born alive, and for 5 cities like facts for the white population only:

